# ETSI TS 137 571-3 V12.1.0 (2015-01)


**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 3: Implementation Conformance Statement (ICS)**
**(3GPP TS 37.571-3 version 12.1.0 Release 12)**

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# Contents

# 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.

# Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

The present document is part 3 of a multi-parts 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 provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation UTRAN and E-UTRAN User Equipment (UE) supporting UE positioning, in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [7] and ISO/IEC 9646-7 [8].

The present document also specifies a recommended applicability statement for the test cases included in 3GPP TS 37.571-1 [5] and 3GPP TS 37.571-2 [6]. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in 3GPP TS 34.109 [10] for UTRA and 3GPP TS 36.509 [2] for E-UTRA. The common test environments are included in 3GPP TS 34.108 [9] for UTRA and in 3GPP TS 36.508 [3] for E-UTRA.

The present document is valid for UE supporting UE positioning implemented according to 3GPP releases starting from Release 99 up to the Release indicated on the cover page of the present document.

# 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.

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

[2] 3GPP TS 36.509: "Special conformance testing functions for User Equipment".

[3] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common Test Environments for User Equipment (UE) Conformance Testing".

[4] 3GPP TS 36.355: "Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)".

[5] 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".

[6] 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".

[7] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[8] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[9] 3GPP TS 34.108: "Common Test Environments for User Equipment (UE) Conformance Testing".

[10] 3GPP TS 34.109: "Terminal logical test interface; Special conformance testing functions".

[11] 3GPP TS 36.523-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".

[12] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".

[13] 3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities".

# 3 Definitions, symbols and abbreviations

For the purposes of the present document, the following terms, definitions, symbols and abbreviations apply:

- such given in TR 21.905[1]
- such given in ISO/IEC 9646-1 [7] and ISO/IEC 9646-7 [8]

NOTE: Some terms and abbreviations defined in [7] and [8] are explicitly included below with small modification to reflect the terminology used in 3GPP.

## 3.1 Definitions

**Implementation Conformance Statement (ICS):** A statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented.

**ICS proforma:** A document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.

**Implementation eXtra Information for Testing (IXIT)**: A statement made by a supplier or implementer of an UEUT which contains or references all of the information (in addition to that given in the ICS) related to the UEUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the UEUT.

**IXIT proforma:** A document, in the form of a questionnaire, which when completed for an UEUT becomes an IXIT.

**Protocol Implementation Conformance Statement (PICS):** An ICS for an implementation or system claimed to conform to a given protocol specification.

**Protocol Implementation eXtra Information for Testing (PIXIT):** An IXIT related to testing for conformance to a given protocol specification.

**static conformance review**: A review of the extent to which the static conformance requirements are claimed to be supported by the UEUT, by comparing the answers in the ICS(s) with the static conformance requirements expressed in the relevant specification(s).

## 3.2 Symbols

No specific symbols have been identified so far.

## 3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

| | |
|---|---|
| A-GNSS | Assisted - Global Navigation Satellite System |
| A-GPS | Assisted - Global Positioning System |
| BDS | BeiDou Navigation Satellite System |
| DUT | Device Under Test |
| E-CID | Enhanced Cell-ID (positioning method) |
| ENB | Evolved Node B |
| E-UTRA | Evolved UMTS Terrestrial Radio Access |
| E-UTRAN | Evolved UMTS Terrestrial Radio Access Network |
| FDD | Frequency Division Duplex |
| FFS | For Further Study |

| | |
|---|---|
| GLONASS | GLObal'naya NAvigatsionnaya Sputnikovaya Sistema (English: Global Navigation Satellite System) |
| GNSS | Global Navigation Satellite System |
| GPS | Global Positioning System |
| ICS | Implementation Conformance Statement |
| IXIT | Implementation eXtra Information for Testing |
| LPP | LTE Positioning Protocol |
| MO-LR | Mobile Originated Location Request |
| MT-LR | Mobile Terminated Location Request |
| OTDOA | Observed Time Difference Of Arrival |
| PICS | Protocol Implementation Conformance Statement |
| PIXIT | Protocol Implementation eXtra Information for Testing |
| QZSS | Quasi-Zenith Satellite System |
| SBAS | Space Based Augmentation System |
| SCS | System Conformance Statement |
| TC | Test Case |
| UE | User Equipment |
| UEUT | User Equipment Under Test |

# 4 Recommended Test Case Applicability

The applicability of each individual test is identified in Table 4-1 (UTRA) and 4.3 (E-UTRA) for test cases in TS 37.571-1 [5] and in Table 4-5 (UTRA) and 4.7 (E-UTRA) for test cases in TS 37.571-2 [6]. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of the present document.

Additional information related to the Test Case (TC), e.g. affecting its dynamic behaviour or its execution may be provided as well

The columns in Tables 4-1, 4.3, 4.5, and 4.7 have the following meaning:

### Clause

The clause column indicates the clause number in TS 37.571-1 [5] and TS 37.571-2 [6] that contains the test body.

### Title

The title column describes the name of the test and contains the clause title of the clause in TS 37.571-1 [5] and TS 37.571-2 [6] that contains the test body.

### Release

The release column indicates the earliest release from which each the test case is applicable.

### Applicability - Condition

The following notations are used for the applicability column:

| | |
|---|---|
| R | recommended - the test case is recommended |
| O | optional - the test case is optional |
| N/A | not applicable - in the given context, the test case is not recommended. |
| Ci | conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities. |

NOTE: The conditions are defined in Table 4-2, 4-4, 4-6, and 4-8.

Applicability - Comments

This column contains a verbal description of the condition.

Additional Information - Specific ICS

This column contains the mnemonics of ICS(s) affecting the dynamic behaviour of the TC.

Additional Information - Specific IXIT

This column contains the mnemonics of IXIT(s) affecting the dynamic behaviour of the TC.

**Table 4-1: Applicability of tests and additional information for testing for test cases in TS 37.571-1 [5] for UTRA**

| Clause | Title | Release | Applicability | Comments |
|---|---|---|---|---|
| 5.2.1 | Sensitivity Coarse Time Assistance | Rel-6 | C01ur | All UEs supporting FDD and UE-Based A-GPS L1 C/A only or UE-Assisted A-GPS L1 C/A only |
| 5.2.2 | Sensitivity Fine Time Assistance | Rel-6 | C02ur | All UEs supporting FDD and UE-Based A-GPS L1 C/A only or UE-Assisted A-GPS L1 C/A only and Fine Time Assistance |
| 5.3 | Nominal Accuracy | Rel-6 | C01ur | All UEs supporting FDD and UE-Based A-GPS L1 C/A only or UE-Assisted A-GPS L1 C/A only |
| 5.4 | Dynamic Range | Rel-6 | C01ur | All UEs supporting FDD and UE-Based A-GPS L1 C/A only or UE-Assisted A-GPS L1 C/A only |
| 5.5 | Multi-path Performance | Rel-6 | C01ur | All UEs supporting FDD and UE-Based A-GPS L1 C/A only or UE-Assisted A-GPS L1 C/A only |
| 5.6 | Moving Scenario and Periodic Update Performance | Rel-6 | C01ur | All UEs supporting FDD and UE-Based A-GPS L1 C/A only or UE-Assisted A-GPS L1 C/A only |
| 6.2.1-1 | Sensitivity Coarse Time Assistance: Sub-Test 1 | Rel-10 | C03-1ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS only |
| 6.2.1-2 | Sensitivity Coarse Time Assistance: Sub-Test 2 | Rel-10 | C03-2ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo only |
| 6.2.1-3 | Sensitivity Coarse Time Assistance: Sub-Test 3 | Rel-10 | C03-3ur | All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS only or UE-Assisted A-GPS and A-GANSS with Modernized GPS only |
| 6.2.1-4 | Sensitivity Coarse Time Assistance: Sub-Test 4 | Rel-10 | C03-4ur | All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS only or UE-Assisted A-GPS and A-GANSS with GLONASS only |
| 6.2.1-9 | Sensitivity Coarse Time Assistance: Sub-Test 9 | Rel-12 | C03-9ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS only |
| 6.2.1-10 | Sensitivity Coarse Time Assistance: Sub-Test 10 | Rel-12 | C03-10ur | All UEs supporting UE-Based A-GPS and A-GANSS with BDS only or UE-Assisted A-GPS and A-GANSS with BDS only |
| 6.2.2-1 | Sensitivity Fine Time Assistance: Sub-Test 1 | Rel-10 | C04-1ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS only and Fine Time Assistance |
| 6.2.2-2 | Sensitivity Fine Time Assistance: Sub-Test 2 | Rel-10 | C04-2ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo only and Fine Time Assistance |
| 6.2.2-3 | Sensitivity Fine Time Assistance: Sub-Test 3 | Rel-10 | C04-3ur | All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS only or UE-Assisted A-GPS and A-GANSS with Modernized GPS only and Fine Time Assistance |
| 6.2.2-4 | Sensitivity Fine Time Assistance: Sub-Test 4 | Rel-10 | C04-4ur | All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS only or UE-Assisted A-GPS and A-GANSS with GLONASS only and Fine Time Assistance |
| 6.2.2-9 | Sensitivity Fine Time Assistance: Sub-Test 9 | Rel-12 | C04-9ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS only and Fine Time Assistance |
| 6.2.2-10 | Sensitivity Fine Time Assistance: Sub-Test 10 | Rel-12 | C04-10ur | All UEs supporting UE-Based A-GPS and A-GANSS with BDS only or UE-Assisted A-GPS and A-GANSS with BDS only and Fine Time Assistance |
| 6.3-1 | Nominal Accuracy: Sub-Test 1 | Rel-10 | C03-1ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS only |

| Clause | Title | Release | Applicability | Comments |
|---|---|---|---|---|
| 6.3-2 | Nominal Accuracy: Sub-Test 2 | Rel-10 | C03-2ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo only |
| 6.3-3 | Nominal Accuracy: Sub-Test 3 | Rel-10 | C03-3ur | All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS only or UE-Assisted A-GPS and A-GANSS with Modernized GPS only |
| 6.3-4 | Nominal Accuracy: Sub-Test 4 | Rel-10 | C03-4ur | All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS only or UE-Assisted A-GPS and A-GANSS with GLONASS only |
| 6.3-9 | Nominal Accuracy: Sub-Test 9 | Rel-12 | C03-9ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS only |
| 6.3-10 | Nominal Accuracy: Sub-Test 10 | Rel-12 | C03-10ur | All UEs supporting UE-Based A-GPS and A-GANSS with BDS only or UE-Assisted A-GPS and A-GANSS with BDS only |
| 6.4-1 | Dynamic Range: Sub-Test 1 | Rel-10 | C03-1ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS only |
| 6.4-2 | Dynamic Range: Sub-Test 2 | Rel-10 | C03-2ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo only |
| 6.4-3 | Dynamic Range: Sub-Test 3 | Rel-10 | C03-3ur | All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS only or UE-Assisted A-GPS and A-GANSS with Modernized GPS only |
| 6.4-4 | Dynamic Range: Sub-Test 4 | Rel-10 | C03-4ur | All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS only or UE-Assisted A-GPS and A-GANSS with GLONASS only |
| 6.4-9 | Dynamic Range: Sub-Test 9 | Rel-12 | C03-9ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS only |
| 6.4-10 | Dynamic Range: Sub-Test 10 | Rel-12 | C03-10ur | All UEs supporting UE-Based A-GPS and A-GANSS with BDS only or UE-Assisted A-GPS and A-GANSS with BDS only |
| 6.5-1 | Multi-path Performance: Sub-Test 1 | Rel-10 | C03-1ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS only |
| 6.5-2 | Multi- path Performance: Sub-Test 2 | Rel-10 | C03-2ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo only |
| 6.5-3 | Multi- path Performance: Sub-Test 3 | Rel-10 | C03-3ur | All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS only or UE-Assisted A-GPS and A-GANSS with Modernized GPS only |
| 6.5-4 | Multi- path Performance: Sub-Test 4 | Rel-10 | C03-4ur | All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS only or UE-Assisted A-GPS and A-GANSS with GLONASS only |
| 6.5-9 | Multi- path Performance: Sub-Test 9 | Rel-12 | C03-9ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS only |
| 6.5-10 | Multi- path Performance: Sub-Test 10 | Rel-12 | C03-10ur | All UEs supporting UE-Based A-GPS and A-GANSS with BDS only or UE-Assisted A-GPS and A-GANSS with BDS only |
| 6.6-1 | Moving Scenario and Periodic Update Performance: Sub-Test 1 | Rel-10 | C03-1ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS only |
| 6.6-2 | Moving Scenario and Periodic Update Performance: Sub-Test 2 | Rel-10 | C03-2ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo only |
| 6.6-3 | Moving Scenario and Periodic Update Performance: Sub-Test 3 | Rel-10 | C03-3ur | All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS only or UE-Assisted A-GPS and A-GANSS with Modernized GPS only |
| 6.6-4 | Moving Scenario and Periodic Update Performance: Sub-Test 4 | Rel-10 | C03-4ur | All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS only or UE-Assisted A-GPS and A-GANSS with GLONASS only |

| Clause | Title | Release | Applicability | Comments |
|---|---|---|---|---|
| 6.6-9 | Moving Scenario and Periodic Update Performance: Sub-Test 9 | Rel-12 | C03-9ur | All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS only |
| 6.6-10 | Moving Scenario and Periodic Update Performance: Sub-Test 10 | Rel-12 | C03-10ur | All UEs supporting UE-Based A-GPS and A-GANSS with BDS only or UE-Assisted A-GPS and A-GANSS with BDS only |

**Table 4-2: Applicability of tests Conditions for test cases in TS 37.571-1 [5] for UTRA**

| | |
|---|---|
| C01ur | IF A.4.1-1/3 AND (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A |
| C02ur | IF A.4.1-1/3 AND (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/12 THEN R ELSE N/A |
| C03-1ur | IF A.4.3-1/7 AND NOT (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/8 OR A.4.3-1/9) AND NOT A.4.3-1/13 THEN R ELSE N/A |
| C03-2ur | IF A.4.3-1/9 AND NOT (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/7 OR A.4.3-1/8) AND NOT A.4.3-1/13 THEN R ELSE N/A |
| C03-3ur | IF A.4.3-1/8 AND (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/7 OR A.4.3-1/9) AND NOT A.4.3-1/13 THEN R ELSE N/A |
| C03-4ur | IF A.4.3-1/7 AND (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/8 OR A.4.3-1/9) AND NOT A.4.3-1/13 THEN R ELSE N/A |
| C03-9ur | IF A.4.3-1/13 AND NOT (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/9) THEN R ELSE N/A |
| C03-10ur | IF A.4.3-1/13 AND (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/9) THEN R ELSE N/A |
| C04-1ur | IF A.4.3-1/7 AND NOT (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/8 OR A.4.3-1/9) AND NOT A.4.3-1/13 AND A.4.3-1/12 THEN R ELSE N/A |
| C04-2ur | IF A.4.3-1/9 AND NOT (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/7 OR A.4.3-1/8) AND NOT A.4.3-1/13 AND A.4.3-1/12 THEN R ELSE N/A |
| C04-3ur | IF A.4.3-1/8 AND (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/7 OR A.4.3-1/9) AND NOT A.4.3-1/13 AND A.4.3-1/12 THEN R ELSE N/A |
| C04-4ur | IF A.4.3-1/7 AND (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/8 OR A.4.3-1/9) AND NOT A.4.3-1/13 AND A.4.3-1/12 THEN R ELSE N/A |
| C04-9ur | IF A.4.3-1/13 AND NOT (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/9) AND A.4.3-1/12 THEN R ELSE N/A |
| C04-10ur | IF A.4.3-1/13 AND (A.4.3-1/10 OR A.4.3-1/11) AND NOT (A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/9) AND A.4.3-1/12 THEN R ELSE N/A |

**Table 4-3: Applicability of tests and additional information for testing for test cases in TS 37.571-1 [5] for E-UTRA**

| Clause | TC Title | Release | Applicability | | Additional Information | | |
|---|---|---|---|---|---|---|---|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions |
| 7 | A-GNSS minimum performance requirements | | | | | | |
| 7.1.1-1 | Sensitivity Coarse Time Assistance: Sub-Test 1 | Rel-9 | C01er | All UEs supporting A-GPS L1C/A only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.1-2 | Sensitivity Coarse Time Assistance: Sub-Test 2 | Rel-9 | C02er | All UEs supporting A-GLONASS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.1-3 | Sensitivity Coarseime Assistance: Sub-Test 3 | Rel-9 | C03er | All UEs supporting A-Galileo only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.1-4 | Sensitivity CoarseTime Assistance: Sub-Test 4 | Rel-9 | C04er | All UEs supporting A-GPS and Modernized GPS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.1-5 | Sensitivity Coarse Time Assistance: Sub-Test 5 | Rel-9 | C05er | All UEs supporting A-GPS and A-GLONASS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.1-9 | Sensitivity Coarse Time Assistance: Sub-Test 9 | Rel-12 | C19er | All UEs supporting A-BDS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.1-10 | Sensitivity Coarse Time Assistance: Sub-Test 10 | Rel-12 | C20er | All UEs supporting A-GPS and A-BDS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.2-1 | Sensitivity Fine Time Assistance: Sub-Test 1 | Rel-9 | C06er | All UEs supporting A-GPS L1C/A only, and Fine Time Assistance | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.2-2 | Sensitivity Fine Time Assistance: Sub-Test 2 | Rel-9 | C07er | All UEs supporting A-GLONASS only, and Fine Time Assistance | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.2-3 | Sensitivity Fine Time Assistance: Sub-Test 3 | Rel-9 | C08er | All UEs supporting A-Galileo only, and Fine Time Assistance | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.2-4 | Sensitivity Fine Time Assistance: Sub-Test 4 | Rel-9 | C09er | All UEs supporting A-GPS and Modernized GPS only, and Fine Time Assistance | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.2-5 | Sensitivity Fine Time Assistance: Sub-Test 5 | Rel-9 | C10er | All UEs supporting A-GPS and A-GLONASS only, and Fine Time Assistance | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.2-9 | Sensitivity Fine Time Assistance: Sub-Test 9 | Rel-12 | C19er | All UEs supporting A-BDS only, and Fine Time Assistance | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.1.2-10 | Sensitivity Fine Time Assistance: Sub-Test 10 | Rel-12 | C20er | All UEs supporting A-GPS and A-BDS only, and Fine Time Assistance | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.2-1 | Nominal Accuracy: Sub-Test 1 | Rel-9 | C01er | All UEs supporting A-GPS L1C/A only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.2-2 | Nominal Accuracy: Sub-Test 2 | Rel-9 | C02er | All UEs supporting A-GLONASS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.2-3 | Nominal Accuracy: Sub-Test 3 | Rel-9 | C03er | All UEs supporting A-Galileo only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.2-4 | Nominal Accuracy: Sub-Test 4 | Rel-9 | C04er | All UEs supporting A-GPS and Modernized GPS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 7.2-5 | Nominal Accuracy: Sub-Test 5 | Rel-9 | C05er | All UEs supporting A-GPS and A-GLONASS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.2-9 | Nominal Accuracy: Sub-Test 9 | Rel-12 | C19er | All UEs supporting A-BDS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.2-10 | Nominal Accuracy: Sub-Test 10 | Rel-12 | C20er | All UEs supporting A-GPS and A-BDS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.3-1 | Dynamic Range: Sub-Test 1 | Rel-9 | C01er | All UEs supporting A-GPS L1C/A only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.3-2 | Dynamic Range: Sub-Test 2 | Rel-9 | C02er | All UEs supporting A-GLONASS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.3-3 | Dynamic Range: Sub-Test 3 | Rel-9 | C03er | All UEs supporting A-Galileo only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.3-4 | Dynamic Range: Sub-Test 4 | Rel-9 | C04er | All UEs supporting A-GPS and Modernized GPS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.3-5 | Dynamic Range: Sub-Test 5 | Rel-9 | C05er | All UEs supporting A-GPS and A-GLONASS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.3-9 | Dynamic Range: Sub-Test 9 | Rel-12 | C19er | All UEs supporting A-BDS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.3-10 | Dynamic Range: Sub-Test 10 | Rel-12 | C20er | All UEs supporting A-GPS and A-BDS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.4-1 | Multi-path scenario: Sub-Test 1 | Rel-9 | C01er | All UEs supporting A-GPS L1C/A only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.4-2 | Multi-path scenario: Sub-Test 2 | Rel-9 | C02er | All UEs supporting A-GLONASS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.4-3 | Multi-path scenario: Sub-Test 3 | Rel-9 | C03er | All UEs supporting A-Galileo only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.4-4 | Multi-path scenario: Sub-Test 4 | Rel-9 | C04er | All UEs supporting A-GPS and Modernized GPS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.4-5 | Multi-path scenario: Sub-Test 5 | Rel-9 | C05er | All UEs supporting A-GPS and A-GLONASS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.4-9 | Multi-path scenario: Sub-Test 9 | Rel-12 | C19er | All UEs supporting A-BDS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.4-10 | Multi-path scenario: Sub-Test 10 | Rel-12 | C20er | All UEs supporting A-GPS and A-BDS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.5-1 | Moving scenario and periodic update: Sub-Test 1 | Rel-9 | C01er | All UEs supporting A-GPS L1C/A only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.5-2 | Moving scenario and periodic update: Sub-Test 2 | Rel-9 | C02er | All UEs supporting A-GLONASS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.5-3 | Moving scenario and periodic update: Sub-Test 3 | Rel-9 | C03er | All UEs supporting A-Galileo only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.5-4 | Moving scenario and periodic update: Sub-Test 4 | Rel-9 | C04er | All UEs supporting A-GPS and Modernized GPS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.5-5 | Moving scenario and periodic update: Sub-Test 5 | Rel-9 | C05er | All UEs supporting A-GPS and A-GLONASS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.5-9 | Moving scenario and periodic update: Sub-Test 9 | Rel-12 | C19er | All UEs supporting A-BDS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| 7.5-10 | Moving scenario and periodic update: Sub-Test 10 | Rel-12 | C20er | All UEs supporting A-GPS and A-BDS only | pc_eFDD | | |
| | | | | | pc_eTDD | | |
| **8** | **E-CID measurement requirements** | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8.1.1 | FDD UE Rx-Tx time difference case | Rel-9 | C11er | All FDD UEs supporting E-CID with Rx-Tx time difference | pc_eFDD | | |
| 8.1.2 | TDD UE Rx-Tx time difference case | Rel-9 | C12er | All TDD UEs supporting E-CID with Rx-Tx time difference | pc_eTDD | | |
| 8.1.5 | E-UTRAN FDD UE Rx–Tx time difference under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC) | Rel-11 | C21er | All FDD UEs supporting E-CID with Rx-Tx time difference and CRS interference handling | pc_eFDD | | |
| 8.1.6 | E-UTRAN TDD UE Rx–Tx time difference under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (feICIC) | Rel-11 | C22er | All TDD UEs supporting E-CID with Rx-Tx time difference and CRS interference handling and ss-CCH interference handling | pc_eTDD | | |
| **9** | **OTDOA measurement requirements** | | | | | | |
| 9.1.1 | FDD RSTD Measurement Reporting Delay | Rel-9 | C13er | All FDD UEs supporting UE-assisted OTDOA | pc_eFDD | | |
| 9.1.2 | TDD RSTD Measurement Reporting Delay | Rel-9 | C14er | All TDD UEs supporting UE-assisted OTDOA | pc_eTDD | | |
| 9.1.3 | FDD RSTD Measurement Accuracy | Rel-9 | C13er | All FDD UEs supporting UE-assisted OTDOA | pc_eFDD | | |
| 9.1.4 | TDD RSTD Measurement Accuracy | Rel-9 | C14er | All TDD UEs supporting UE-assisted OTDOA | pc_eTDD | | |
| 9.2.1 | FDD-FDD inter-frequency RSTD measurement reporting delay | Rel-10 | C17er | All FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements | pc_eFDD | Note 1 | |
| 9.2.2 | TDD-TDD inter-frequency RSTD measurement reporting delay | Rel-10 | C18er | All TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements | pc_eTDD | Note 1 | |
| 9.2.4 | FDD-FDD inter-frequency RSTD Accuracy | Rel-10 | C17er | All FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements | pc_eFDD | Note 1 | |
| 9.2.5 | TDD-TDD inter-frequency RSTD Accuracy | Rel-10 | C18er | All TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements | pc_eTDD | Note 1 | |
| **10** | **OTDOA measurement requirements for Carrier Aggregation** | | | | | | |
| 10.1 | FDD RSTD Measurement Reporting Delay for Carrier Aggregation | Rel-10 | C15er | All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eFDD | | Either TC 10.1 or TC 10.1A or TC 10.1B or TC 10.1C shall be executed. (Note 2) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10.1A | FDD RSTD Measurement Reporting Delay for Carrier Aggregation for 20MHz | Rel-10 | C15er | All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eFDD | | Either TC 10.1 or TC 10.1A or TC 10.1B or TC 10.1C shall be executed. (Note 2) |
| 10.1B | FDD RSTD Measurement Reporting Delay Carrier Aggregation for 5 MHz +5 MHz bandwidth | Rel-10 | C15er | All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eFDD | | Either TC 10.1 or TC 10.1A or TC 10.1B or TC 10.1C shall be executed. (Note 2) |
| 10.1C | FDD RSTD Measurement Reporting Delay for Carrier Aggregation for 10MHz+5MHz bandwidth | Rel-11 | C15er | All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eFDD | | Either TC 10.1 or TC 10.1A or TC 10.1B or TC 10.1C shall be executed. (Note 2) |
| 10.2 | TDD RSTD Measurement Reporting Delay for Carrier Aggregation | Rel-10 | C16er | All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eTDD | | Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C shall be executed. (Note 2) |
| 10.2A | TDD RSTD Measurement Reporting Delay for Carrier Aggregation for 20MHz | Rel-10 | C16er | All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eTDD | | Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C shall be executed. (Note 2) |
| 10.2B | TDD RSTD Measurement Reporting Delay for Carrier Aggregation for 5MHz +5 MHz bandwidth | Rel-10 | C16er | All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eTDD | | Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C shall be executed. (Note 2) |
| 10.2C | TDD RSTD Measurement Reporting Delay for Carrier Aggregation for 10MHz+5MHz bandwidth | Rel-11 | C16er | All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eTDD | | Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C shall be executed. (Note 2) |
| 10.3 | FDD RSTD Measurement Accuracy for Carrier Aggregation | Rel-10 | C15er | All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eFDD | | Either TC 10.3 or TC 10.3A or TC 10.3B or TC 10.3C shall be executed. (Note 2) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10.3A | FDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz | Rel-10 | C15er | All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eFDD | | Either TC 10.3 or TC 10.3A or TC 10.3B or TC 10.3C shall be executed. (Note 2) |
| 10.3B | FDD RSTD Measurement Accuracy for Carrier Aggregation for 5MHz +5 MHz bandwidth | Rel-10 | C15er | All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eFDD | | Either TC 10.3 or TC 10.3A or TC 10.3B or TC 10.3C shall be executed. (Note 2) |
| 10.3C | FDD RSTD Measurement Accuracy for Carrier Aggregation for 10MHz+5MHz bandwidth | Rel-11 | C15er | All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eFDD | | Either TC 10.3 or TC 10.3A or TC 10.3B or TC 10.3C shall be executed. (Note 2) |
| 10.4 | TDD RSTD Measurement Accuracy for Carrier Aggregation | Rel-10 | C16er | All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eTDD | | Either TC 10.4 or TC 10.4A or TC 10.4B or TC 10.4C shall be executed. (Note 2) |
| 10.4A | TDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz | Rel-10 | C16er | All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eTDD | | Either TC 10.4 or TC 10.4A or TC 10.4B or TC 10.4C shall be executed. (Note 2) |
| 10.4B | TDD RSTD Measurement Accuracy for Carrier Aggregation for 5 MHz +5 MHz bandwidth | Rel-10 | C16er | All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eTDD | | Either TC 10.4 or TC 10.4A or TC 10.4B or TC 10.4C shall be executed. (Note 2) |
| 10.4C | TDD RSTD Measurement Accuracy for Carrier Aggregation for 10MHz+5MHz bandwidth | Rel-11 | C16er | All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation | pc_eTDD | | Either TC 10.4 or TC 10.4A or TC 10.4B or TC 10.4C shall be executed. (Note 2) |
| Note 1: This test case can be optionally tested for Rel-9 UEs supporting inter-frequency RSTD measurements that do not require measurement gaps.<br>Note 2: The Carrier Aggregation TCs verify the same core requirement(s) however with different channel bandwidth configurations, this according to the guidance in TS 37.571-1, Clause 4.7.5 [5]. | | | | | | | |

**Table 4-4: Applicability of tests Conditions for test cases in TS 37.571-1 [5] for E-UTRA**

| | |
|---|---|
| C01er | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/6 AND NOT (A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18 ) THEN R ELSE N/A |
| C02er | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/7 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18 ) THEN R ELSE N/A |
| C03er | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/9 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/18 ) THEN R ELSE N/A |
| C04er | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/8 AND NOT (A.4.3-2/7 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C05er | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/6 AND A.4.3-2/7 AND NOT (A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18 ) THEN R ELSE N/A |
| C06er | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/6 AND NOT (A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18) AND A.4.3-2/3 THEN R ELSE N/A |
| C07er | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/7 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18 ) AND A.4.3-2/3 THEN R ELSE N/A |
| C08er | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/9 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/18) AND A.4.3-2/3 THEN R ELSE N/A |
| C09er | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/8 AND NOT (A.4.3-2/7 OR A.4.3-2/9 OR A.4.3-2/18 ) AND A.4.3-2/3 THEN R ELSE N/A |
| C10er | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/6 AND A.4.3-2/7 AND NOT (A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18 ) AND A.4.3-2/3 THEN R ELSE N/A |
| C11er | IF A.4.1-1/1 AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A |
| C12er | IF A.4.1-1/2 AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A |
| C13er | IF A.4.1-1/1 AND A.4.3-2/4 THEN R ELSE N/A |
| C14er | IF A.4.1-1/2 AND A.4.3-2/4 THEN R ELSE N/A |
| C15er | IF A.4.1-1/1 AND A.4.3-2/15 THEN R ELSE N/A |
| C16er | IF A.4.1-1/2 AND A.4.3-2/15 THEN R ELSE N/A |
| C17er | IF A.4.1-1/1 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A |
| C18er | IF A.4.1-1/2 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A |
| C19er | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/18 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/9 ) THEN R ELSE N/A |
| C20er | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/6 AND A.4.3-2/18 AND NOT (A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/9 ) THEN R ELSE N/A |
| C21er | IF A.4.1-1/1 AND A.4.3-2/5 AND A.4.3-4/3 AND A.4.4-2/1 THEN R ELSE N/A |
| C22er | IF A.4.1-1/2 AND A.4.3-2/5 AND A.4.3-4/3 AND A.4.4-2/1 AND A.4.4-2/2THEN R ELSE N/A |

**Table 4-5: Applicability of tests and additional information for testing for test cases in TS 37.571-2 [6] for UTRA**

| Clause | Title | Release | Applicability | Comments | Number of TC Executions (informative) |
|---|---|---|---|---|---|
| 6.1.1.1 | LCS Network Induced location request / UE-Based GPS / Emergency Call / with USIM | R99 | C01us | UEs supporting FDD, emergency speech call and UE based Network Assisted GPS L1 C/A only | 1 Execution: CS |
| 6.1.1.2 | LCS Network induced location request / UE-Based GPS / Emergency call / Without USIM | R99 | C01us | UEs supporting FDD, emergency speech call and UE based Network Assisted GPS L1 C/A only | 1 Execution: CS |
| 6.1.1.3 | LCS Network induced location request / UE-Assisted GPS / Emergency call / With USIM | R99 | C03us | UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS L1 C/A only | 1 Execution: CS |
| 6.1.1.4 | LCS Network induced location request / UE-Assisted GPS / Emergency call / Without USIM | R99 | C03us | UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS L1 C/A only | 1 Execution: CS |
| 6.1.2.1 | LCS Mobile originated location request / UE-Based GPS / Position estimate request / Success | R99 | C09us | UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.1.2.2 | LCS Mobile originated location request UE-Based or UE-Assisted GPS / Assistance data request / Success | R99 | C05us | UEs supporting FDD and (UE based or UE assisted Network Assisted GPS L1 C/A only) and MO-LR request for assistance data | 1 Execution: CS |
| 6.1.2.3 | LCS Mobile originated location request / UE-Assisted GPS / Position Estimate / Success | R99 | C10us | UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.1.2.4 | LCS Mobile originated location request / UE-Based GPS / Transfer to third party / Success | R99 | C07us | UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MO-LR request for transfer to 3rd party | 1 Execution: CS |
| 6.1.2.5 | LCS Mobile originated location request / UE-Assisted GPS / Transfer to third party / Success | R99 | C08us | UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MO-LR request for transfer to 3rd party | 1 Execution: CS |
| 6.1.2.6 | LCS Mobile originated location request / UE-Based or UE-Assisted GPS / Assistance data request / Failure | R99 | C05us | UEs supporting FDD and (either UE based or UE assisted Network Assisted GPS L1 C/A only) and MO-LR request for assistance data | 1 Execution: CS |
| 6.1.2.7 | LCS Mobile originated location request / UE-Based GPS / Position estimate request / Failure | R99 | C09us | UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MO-LR request for position estimate | 1 Execution: CS |
| 6.1.3.1 | LCS Mobile terminated location request / UE-Based GPS | R99 | C02us | UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability | 1 Execution: CS |
| 6.1.3.2 | LCS Mobile terminated location request / UE-Based GPS / Request of additional assistance data / Success | R99 | C02us | UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability | 1 Execution: CS |
| 6.1.3.3 | LCS Mobile-terminated location request / UE-Based GPS / Failure - Not Enough Satellites | R99 | C02us | UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability | 1 Execution: CS |
| 6.1.3.4 | LCS Mobile terminated location request / UE-Assisted GPS / Success | R99 | C04us | UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability | 1 Execution: CS |
| 6.1.3.5 | LCS Mobile terminated location request / UE-Assisted GPS / Request for additional assistance data / Success | R99 | C04us | UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability | 1 Execution: CS |
| 6.1.3.6 | LCS Mobile terminated location request / UE-Based GPS / Privacy Verification / Location Allowed if No Response | R99 | C02us | UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability | 1 Execution: CS |

| Clause | Title | Release | Applicability | Comments | Number of TC Executions (informative) |
|---|---|---|---|---|---|
| 6.1.3.7 | LCS Mobile terminated location request / UE-Based GPS / Privacy Verification / Location Not Allowed if No Response | R99 | C02us | UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability | 1 Execution: CS |
| 6.1.3.8 | LCS Mobile terminated location request / UE-Assisted GPS / Privacy Verification / Location Allowed if No Response | R99 | C04us | UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability | 1 Execution: CS |
| 6.1.3.9 | LCS Mobile terminated location request / UE-Assisted GPS / Privacy Verification / Location Not Allowed if No Response | R99 | C04us | UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability | 1 Execution: CS |
| 6.1.3.10 | LCS Mobile terminated location request / UE-Based or UE-Assisted GPS / Configuration incomplete | R99 | C06us | UEs supporting FDD and UE based and/or UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability, but not UE-based OTDOA | 1 Execution: CS |
| 6.2.1.1_1s | NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 1 | Rel-8 | C11us | UEs supporting FDD, emergency speech call and UE based Network Assisted GANSS with GLONASS only | 1 Execution: CS |
| 6.2.1.1_2s | NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 2 | Rel-8 | C12us | UEs supporting FDD, emergency speech call and UE based Network Assisted GANSS with Galileo only | 1 Execution: CS |
| 6.2.1.1_3s | NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 3 | Rel-8 | C13us | UEs supporting FDD, emergency speech call and UE based Network Assisted GPS and GANSS with Modernized GPS only | 1 Execution: CS |
| 6.2.1.1_4s | NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 4 | Rel-8 | C14us | UEs supporting FDD, emergency speech call and UE based Network Assisted GPS and GANSS with GLONASS only | 1 Execution: CS |
| 6.2.1.1_9s | NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 9 | Rel-12 | C40us | UEs supporting FDD, emergency speech call and UE based Network Assisted GANSS with BDS only | 1 Execution: CS |
| 6.2.1.1_10s | NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 10 | Rel-12 | C41us | UEs supporting FDD, emergency speech call and UE based Network Assisted GPS and GANSS with BDS only | 1 Execution: CS |
| 6.2.1.2_1s | NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 1 | Rel-8 | C15us | UEs supporting FDD, emergency speech call and UE assisted Network Assisted GANSS with GLONASS only | 1 Execution: CS |
| 6.2.1.2_2s | NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 2 | Rel-8 | C16us | UEs supporting FDD, emergency speech call and UE assisted Network Assisted GANSS with Galileo only | 1 Execution: CS |
| 6.2.1.2_3s | NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 3 | Rel-8 | C17us | UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS and GANSS with Modernized GPS only | 1 Execution: CS |
| 6.2.1.2_4s | NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 4 | Rel-8 | C18us | UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS and GANSS with GLONASS only | 1 Execution: CS |
| 6.2.1.2_9s | NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 9 | Rel-12 | C42us | UEs supporting FDD, emergency speech call and UE assisted Network Assisted GANSS with BDS only | 1 Execution: CS |
| 6.2.1.2_10s | NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 10 | Rel-12 | C43us | UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS and GANSS with BDS only | 1 Execution: CS |

| Clause | Title | Release | Applicability | Comments | Number of TC Executions (informative) |
|---|---|---|---|---|---|
| 6.2.2.1_1s | MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 1 | Rel-8 | C19us | UEs supporting FDD and UE based Network Assisted GANSS with GLONASS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.1_2s | MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 2 | Rel-8 | C20us | UEs supporting FDD and UE based Network Assisted GANSS with Galileo only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.1_3s | MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 3 | Rel-8 | C21us | UEs supporting FDD and UE based Network Assisted GPS and GANSS with Modernized GPS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.1_4s | MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 4 | Rel-8 | C22us | UEs supporting FDD and UE based Network Assisted GPS and GANSS with GLONASS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.1_9s | MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 9 | Rel-12 | C44us | UEs supporting FDD and UE based Network Assisted GANSS with BDS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.1_10s | MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 10 | Rel-12 | C45us | UEs supporting FDD and UE based Network Assisted GPS and GANSS with BDS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.2_1s | MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 1 | Rel-8 | C23us | UEs supporting FDD and UE assisted Network Assisted GANSS with GLONASS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.2_2s | MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 2 | Rel-8 | C24us | UEs supporting FDD and UE assisted Network Assisted GANSS with Galileo only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.2_3s | MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 3 | Rel-8 | C25us | UEs supporting FDD and UE assisted Network Assisted GPS and GANSS with Modernized GPS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.2_4s | MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 4 | Rel-8 | C26us | UEs supporting FDD and UE assisted Network Assisted GPS and GANSS with GLONASS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.2_9s | MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 9 | Rel-12 | C46us | UEs supporting FDD and UE assisted Network Assisted GANSS with BDS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.2_10s | MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 10 | Rel-12 | C47us | UEs supporting FDD and UE assisted Network Assisted GPS and GANSS with BDS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.3_1s | MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 1 | Rel-8 | C19us | UEs supporting FDD and UE based Network Assisted GANSS with GLONASS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.3_2s | MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 2 | Rel-8 | C20us | UEs supporting FDD and UE based Network Assisted GANSS with Galileo only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.3_3s | MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 3 | Rel-8 | C21us | UEs supporting FDD and UE based Network Assisted GPS and GANSS with Modernized GPS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.3_4s | MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 4 | Rel-8 | C22us | UEs supporting FDD and UE based Network Assisted GPS and GANSS with GLONASS only and MO-LR request for a position estimate | 1 Execution: CS |

| Clause | Title | Release | Applicability | Comments | Number of TC Executions (informative) |
|---|---|---|---|---|---|
| 6.2.2.3_9s | MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 9 | Rel-12 | C44us | UEs supporting FDD and UE based Network Assisted GANSS with BDS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.3_10s | MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 10 | Rel-12 | C45us | UEs supporting FDD and UE based Network Assisted GPS and GANSS with BDS only and MO-LR request for a position estimate | 1 Execution: CS |
| 6.2.2.4_1s | MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 1 | Rel-8 | C27us | UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with GLONASS only and MO-LR request for assistance data | 1 Execution: CS |
| 6.2.2.4_2s | MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 2 | Rel-8 | C28us | UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with Galileo only and MO-LR request for assistance data | 1 Execution: CS |
| 6.2.2.4_3s | MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 3 | Rel-8 | C29us | UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Modernized GPS only and MO-LR request for assistance data | 1 Execution: CS |
| 6.2.2.4_4s | MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 4 | Rel-8 | C30us | UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with GLONASS only and MO-LR request for assistance data | 1 Execution: CS |
| 6.2.2.4_9s | MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 9 | Rel-12 | C48us | UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with BDS only and MO-LR request for assistance data | 1 Execution: CS |
| 6.2.2.4_10s | MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 10 | Rel-12 | C49us | UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with BDS only and MO-LR request for assistance data | 1 Execution: CS |
| 6.2.2.5_1s | MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 1 | Rel-8 | C27us | UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with GLONASS only and MO-LR request for assistance data | 1 Execution: CS |
| 6.2.2.5_2s | MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 2 | Rel-8 | C28us | UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with Galileo only and MO-LR request for assistance data | 1 Execution: CS |
| 6.2.2.5_3s | MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 3 | Rel-8 | C29us | UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Modernized GPS only and MO-LR request for assistance data | 1 Execution: CS |
| 6.2.2.5_4s | MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 4 | Rel-8 | C30us | UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with GLONASS only and MO-LR request for assistance data | 1 Execution: CS |
| 6.2.2.5_9s | MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 9 | Rel-12 | C48us | UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with BDS only and MO-LR request for assistance data | 1 Execution: CS |

| Clause | Title | Release | Applicability | Comments | Number of TC Executions (informative) |
|---|---|---|---|---|---|
| 6.2.2.5_10s | MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 10 | Rel-12 | C49us | UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with BDS only and MO-LR request for assistance data | 1 Execution: CS |
| 6.2.3.1_1s | MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 1 | Rel-8 | C35us | UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with GLONASS only | 1 Execution: CS |
| 6.2.3.1_2s | MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 2 | Rel-8 | C36us | UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with Galileo only | 1 Execution: CS |
| 6.2.3.1_3s | MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 3 | Rel-8 | C37us | UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Modernized GPS only | 1 Execution: CS |
| 6.2.3.1_4s | MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 4 | Rel-8 | C38us | UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with GLONASS only | 1 Execution: CS |
| 6.2.3.1_9s | MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 9 | Rel-12 | C52us | UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with BDS only | 1 Execution: CS |
| 6.2.3.1_10s | MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 10 | Rel-12 | C53us | UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with BDS only | 1 Execution: CS |
| 6.2.3.2_1s | MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 1 | Rel-8 | C31us | UEs supporting FDD and UE based Network Assisted GANSS with GLONASS only | 1 Execution: CS |
| 6.2.3.2_2s | MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 2 | Rel-8 | C32us | UEs supporting FDD and UE based Network Assisted GANSS with Galileo only | 1 Execution: CS |
| 6.2.3.2_3s | MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 3 | Rel-8 | C33us | UEs supporting FDD and UE based Network Assisted GPS and GANSS with Modernized GPS only | 1 Execution: CS |
| 6.2.3.2_4s | MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 4 | Rel-8 | C34us | UEs supporting FDD and UE based Network Assisted GPS and GANSS with GLONASS only | 1 Execution: CS |
| 6.2.3.2_9s | MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 9 | Rel-12 | C50us | UEs supporting FDD and UE based Network Assisted GANSS with BDS only | 1 Execution: CS |
| 6.2.3.2_10s | MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 10 | Rel-12 | C51us | UEs supporting FDD and UE based Network Assisted GPS and GANSS with BDS only | 1 Execution: CS |
| 6.2.3.3 | Location Notification | Rel-8 | C39us | UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) and MT-LR LCS location request notification capability | 1 Execution: CS |
| 6.2.3.4 | Privacy Verification - Location Allowed if No Response | Rel-8 | C39us | UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) and MT-LR LCS location request notification capability | 1 Execution: CS |
| 6.2.3.5 | Privacy Verification - Location Not Allowed if No Response | Rel-8 | C39us | UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) and MT-LR LCS location request notification capability | 1 Execution: CS |

**Table 4-6: Applicability of tests Conditions for test cases in TS 37.571-2 [6] for UTRA**

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|---|
| C01us IF A.4.1-1/3 AND A.4.1-2/1 AND A.4.3-1/10 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A |
| C02us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-3/8 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A |
| C03us IF A.4.1-1/3 AND A.4.1-2/1 AND A.4.3-1/11 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A |
| C04us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-3/8 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A |
| C05us IF A.4.1-1/3 AND (A.4.3-1/10 OR A.4.3-1/11) AND A.4.3-3/5 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A |
| C06us IF A.4.1-1/3 AND (A.4.3-1/10 OR A.4.3-1/11) AND A.4.3-3/8 AND (NOT A.4.3-1/3) AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A |
| C07us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-3/7 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A |
| C08us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-3/7 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A |
| C09us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-3/6 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A |
| C10us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-3/6 AND NOT (A.4.3-1/5 OR A.4.3-1/6) THEN R ELSE N/A |
| C11us IF A.4.1-1/3 AND A.4.3-1/5 AND A.4.3-1/7 AND NOT (A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C12us IF A.4.1-1/3 AND A.4.3-1/5 AND A.4.3-1/9 AND NOT (A.4.3-1/10 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A |
| C13us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/8 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C14us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/7 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C15us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/7 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C16us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/9 AND NOT (A.4.3-1/11 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A |
| C17us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/8 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C18us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/7 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C19us IF A.4.1-1/3 AND A.4.3-1/5 AND A.4.3-1/7 AND A.4.3-3/6 AND NOT (A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C20us IF A.4.1-1/3 AND A.4.3-1/5 AND A.4.3-1/9 AND A.4.3-3/6 AND NOT (A.4.3-1/10 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A |
| C21us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/8 AND A.4.3-3/6 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C22us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/7 AND A.4.3-3/6 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C23us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/7 AND A.4.3-3/6 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C24us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/9 AND A.4.3-3/6 AND NOT (A.4.3-1/11 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A |
| C25us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/8 AND A.4.3-3/6 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C26us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/7 AND A.4.3-3/6 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C27us IF A.4.1-1/3 AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/7 AND A.4.3-3/5 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C28us IF A.4.1-1/3 AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/9 AND A.4.3-3/5 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A |
| C29us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/9 AND A.4.3-3/5 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C30us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/7 AND A.4.3-3/5 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C31us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/7 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C32us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/9 AND NOT (A.4.3-1/11 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A |
| C33us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/8 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C34us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/7 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C35us IF A.4.1-1/3 AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/7 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C36us IF A.4.1-1/3 AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/9 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/7 OR A.4.3-1/8 OR A.4.3-1/13) THEN R ELSE N/A |
| C37us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/9 AND NOT (A.4.3-1/7 OR A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C38us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/7 AND NOT (A.4.3-1/9 OR A.4.3-1/13) THEN R ELSE N/A |
| C39us IF A.4.1-1/3 AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-3/8 THEN R ELSE N/A |
| C40us IF A.4.1-1/3 AND A.4.3-1/5 AND A.4.3-1/13 AND NOT (A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |

| |
|---|
| C41us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/13 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |
| C42us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/13 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |
| C43us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/13 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |
| C44us IF A.4.1-1/3 AND A.4.3-1/5 AND A.4.3-1/13 AND A.4.3-3/6 AND NOT (A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |
| C45us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/13 AND A.4.3-3/6 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |
| C46us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/13 AND A.4.3-3/6 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |
| C47us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/13 AND A.4.3-3/6 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |
| C48us IF A.4.1-1/3 AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/13 AND A.4.3-3/5 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |
| C49us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/13 AND A.4.3-3/5 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |
| C50us IF A.4.1-1/3 AND A.4.3-1/6 AND A.4.3-1/13 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |
| C51us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/13 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |
| C52us IF A.4.1-1/3 AND (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/13 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |
| C53us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/13 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A |

**Table 4-7: Applicability of tests and additional information for testing for test cases in TS 37.571-2 [6] for E-UTRA**

| Clause | TC Title | Release | Applicability | | Additional Information | |
|---|---|---|---|---|---|---|
| | | | Condition | Comment | Specific ICS | Specific IXIT |
| **7.1** | **NAS Protocol Procedures** | | | | | |
| 7.1.1 | UE Network Capability | Rel-9 | C11es | All UEs supporting LPP | pc_eFDD<br>pc_eTDD | |
| **7.2** | **LCS Procedures** | | | | | |
| 7.2.1.1 | Location Notification | Rel-9 | C14es | All UEs supporting EPC-MT-LR Location Notification | pc_eFDD<br>pc_eTDD | |
| 7.2.1.2 | Privacy Verification – Location Allowed if no Response | Rel-9 | C14es | All UEs supporting EPC-MT-LR Location Notification | pc_eFDD<br>pc_eTDD | px_UeLcsNotification: value for UE LCS Notification timeout timer. |
| 7.2.1.3 | Privacy Verification – Location not Allowed if No Response | Rel-9 | C14es | All UEs supporting EPC-MT-LR Location Notification | pc_eFDD<br>pc_eTDD | px_UeLcsNotification: value for UE LCS Notification timeout timer. |
| 7.2.2.1_1s | Autonomous Self Location: UE-based: Subtest 1 | Rel-9 | C01es | All UEs supporting UE-Based GNSS with A-GPS only and MO-LR request for assistance data | pc_eFDD<br>pc_eTDD | |
| 7.2.2.1_2s | Autonomous Self Location: UE-based: Subtest 2 | Rel-9 | C02es | All UEs supporting UE-Based GNSS with A-GLONASS only and MO-LR request for assistance data | pc_eFDD<br>pc_eTDD | |
| 7.2.2.1_3s | Autonomous Self Location: UE-based: Sub-test 3 | Rel-9 | C03es | All UEs supporting UE-Based GNSS with A-Galileo only and MO-LR request for assistance data | pc_eFDD<br>pc_eTDD | |
| 7.2.2.1_4s | Autonomous Self Location: UE-based: Subtest 4 | Rel-9 | C04es | All UEs supporting UE-Based GNSS with A-GPS and A-GLONASS only and MO-LR request for assistance data | pc_eFDD<br>pc_eTDD | |
| 7.2.2.1_9s | Autonomous Self Location: UE-based: Subtest 9 | Rel-12 | C38es | All UEs supporting UE-Based GNSS with A-BDS only and MO-LR request for assistance data | pc_eFDD<br>pc_eTDD | |
| 7.2.2.1_10s | Autonomous Self Location: UE-based: Subtest 10 | Rel-12 | C39es | All UEs supporting UE-Based GNSS with A-GPS and A-BDS only and MO-LR request for assistance data | pc_eFDD<br>pc_eTDD | |
| 7.2.2.2_1s | Basic Self Location: UE-assisted: Subtest 1 | Rel-9 | C05es | All UEs supporting UE-Assisted GNSS with A-GPS only and MO-LR request for location estimate | pc_eFDD<br>pc_eTDD | |
| 7.2.2.2_2s | Basic Self Location: UE-assisted: Subtest 2 | Rel-9 | C06es | All UEs supporting UE-Assisted GNSS with A-GLONASS only and MO-LR request for location estimate | pc_eFDD<br>pc_eTDD | |
| 7.2.2.2_3s | Basic Self Location: UE-assisted: Subtest 3 | Rel-9 | C07es | All UEs supporting UE-Assisted GNSS with A- | pc_eFDD<br>pc_eTDD | |

| Clause | TC Title | Release | Applicability | | Additional Information | |
|---|---|---|---|---|---|---|
| | | | Condition | Comment | Specific ICS | Specific IXIT |
| | | | | Galileo only and MO-LR request for location estimate | | |
| 7.2.2.2_4s | Basic Self Location: UE-assisted: Subtest 4 | Rel-9 | C08es | All UEs supporting UE-Assisted GNSS with A-GPS and A-GLONASS only and MO-LR request for location estimate | pc_eFDD<br>pc_eTDD | |
| 7.2.2.2_5s | Basic Self Location: UE-assisted: Subtest 5 | Rel-9 | C09es | All UEs supporting UE-Assisted OTDOA and MO-LR request for location estimate | pc_eFDD<br>pc_eTDD | |
| 7.2.2.2_6s | Basic Self Location: UE-assisted: Subtest 6 | Rel-9 | C10es | All UEs supporting UE-Assisted ECID and MO-LR request for location estimate | pc_eFDD<br>pc_eTDD | |
| 7.2.2.2_9s | Basic Self Location: UE-assisted: Subtest 9 | Rel-12 | C40es | All UEs supporting UE-Assisted GNSS with A-BDS only and MO-LR request for location estimate | pc_eFDD<br>pc_eTDD | |
| 7.2.2.2_10s | Basic Self Location: UE-assisted: Subtest 10 | Rel-12 | C41es | All UEs supporting UE-Assisted GNSS with A-GPS and A-BDS only and MO-LR request for location estimate | pc_eFDD<br>pc_eTDD | |
| **7.3** | **LPP Procedures** | | | | | |
| 7.3.1.1 | Position Capability Transfer | Rel-9 | C11es | All UEs supporting LPP | pc_eFDD<br>pc_eTDD | |
| 7.3.2.1 | LPP Duplicated Message | Rel-9 | C11es | All UEs supporting LPP | pc_eFDD<br>pc_eTDD | |
| 7.3.2.2 | LPP Acknowledgment | Rel-9 | C11es | All UEs supporting LPP | pc_eFDD<br>pc_eTDD | |
| 7.3.2.3 | LPP Retransmission | Rel-9 | C36es | All UEs supporting LPP and support of sending of acknowledgement request in LPP Provide Capabilities message. | pc_eFDD<br>pc_eTDD | |
| 7.3.3.1 | LPP Requested Method not Supported - UE-Assisted | Rel-9 | C15es | All UEs supporting at least one of UE-assisted GNSS, UE-assisted OTDOA or UE-assisted ECID but not all of them. | pc_eFDD<br>pc_eTDD | |
| 7.3.4.1_1s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 1 | Rel-9 | C28es | All UEs supporting UE-based GNSS with A-GPS only | pc_eFDD<br>pc_eTDD | |
| 7.3.4.1_2s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 2 | Rel-9 | C29es | All UEs supporting UE-based GNSS with A-GLONASS only | pc_eFDD<br>pc_eTDD | |
| 7.3.4.1_3s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 3 | Rel-9 | C30es | All UEs supporting UE-based GNSS with A-Galileo only | pc_eFDD<br>pc_eTDD | |
| 7.3.4.1_4s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 4 | Rel-9 | C31es | All UEs supporting UE-based GNSS with A-GPS and A-GLONASS only | pc_eFDD<br>pc_eTDD | |

| Clause | TC Title | Release | Applicability | | Additional Information | |
|---|---|---|---|---|---|---|
| | | | Condition | Comment | Specific ICS | Specific IXIT |
| 7.3.4.1_9s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 9 | Rel-12 | C44es | All UEs supporting UE-based GNSS with A-BDS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.1_10s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 10 | Rel-12 | C45es | All UEs supporting UE-based GNSS with A-GPS and A-BDS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.2_1s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 1 | Rel-9 | C32es | All UEs supporting UE-assisted GNSS with A-GPS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.2_2s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 2 | Rel-9 | C33es | All UEs supporting UE-assisted GNSS with A-GLONASS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.2_3s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 3 | Rel-9 | C34es | All UEs supporting UE-assisted GNSS with A-Galileo only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.2_4s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 4 | Rel-9 | C35es | All UEs supporting UE-assisted GNSS with A-GPS and A-GLONASS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.2_5s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 5 | Rel-9 | C26es | All UEs supporting UE-Assisted OTDOA | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.2_6s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 6 | Rel-9 | C27es | All UEs supporting UE-Assisted ECID | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.2_7s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 7 | Rel-9 | C21es | All UEs supporting UE-assisted GNSS and UE-assisted OTDOA | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.2_9s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 9 | Rel-12 | C46es | All UEs supporting UE-assisted GNSS with A-BDS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.2_10s | E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 10 | Rel-12 | C47es | All UEs supporting UE-assisted GNSS with A-GPS and A-BDS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.3_1s | E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 1 | Rel-9 | C28es | All UEs supporting UE-based GNSS with A-GPS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.3_2s | E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 2 | Rel-9 | C29es | All UEs supporting UE-based GNSS with A-GLONASS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.3_3s | E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 3 | Rel-9 | C30es | All UEs supporting UE-based GNSS with A-Galileo only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.3_4s | E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 4 | Rel-9 | C31es | All UEs supporting UE-based GNSS with A-GPS and A-GLONASS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.3_9s | E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 9 | Rel-12 | C44es | All UEs supporting UE-based GNSS with A-BDS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.3_10s | E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 10 | Rel-12 | C45es | All UEs supporting UE-based GNSS with A-GPS and A-BDS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.4_1s | E-SMLC Initiated Position Measurement without assistance data: UE-Assisted: Subtest 1 | Rel-9 | C32es | All UEs supporting UE-assisted GNSS with A-GPS only | pc_eFDD | |
| | | | | | pc_eTDD | |
| 7.3.4.4_2s | E-SMLC Initiated Position Measurement without assistance data: UE-Assisted: Subtest 2 | Rel-9 | C33es | All UEs supporting UE-assisted GNSS with A- | pc_eFDD | |
| | | | | | pc_eTDD | |

| Clause | TC Title | Release | Applicability | | Additional Information | |
|---|---|---|---|---|---|---|
| | | | Condition | Comment | Specific ICS | Specific IXIT |
| | | | | GLONASS only | | |
| 7.3.4.4_3s | E-SMLC Initiated Position Measurement without assistance data: UE-Assisted: Subtest 3 | Rel-9 | C34es | All UEs supporting UE-assisted GNSS with A-Galileo only | pc_epc_eFDD<br>pc_eTDD | |
| 7.3.4.4_4s | E-SMLC Initiated Position Measurement without assistance data: UE-Assisted: Subtest 4 | Rel-9 | C35es | All UEs supporting UE-assisted GNSS with A-GPS and A-GLONASS only | pc_eFDD<br>pc_eTDD | |
| 7.3.4.4_5s | E-SMLC Initiated Position Measurement without assistance data: UE-Assisted: Subtest 5 | Rel-9 | C26es | All UEs supporting UE-Assisted OTDOA | pc_eFDD<br>pc_eTDD | |
| 7.3.4.4_7s | E-SMLC Initiated Position Measurement without assistance data: UE-Assisted: Subtest 7 | Rel-9 | C21es | All UEs supporting UE-assisted GNSS and UE-assisted OTDOA | pc_eFDD<br>pc_eTDD | |
| 7.3.4.4_9s | E-SMLC Initiated Position Measurement without assistance data: UE-Assisted: Subtest 9 | Rel-12 | C46es | All UEs supporting UE-assisted GNSS with A-BDS only | pc_eFDD<br>pc_eTDD | |
| 7.3.4.4_10s | E-SMLC Initiated Position Measurement without assistance data: UE-Assisted: Subtest 10 | Rel-12 | C47es | All UEs supporting UE-assisted GNSS with A-GPS and A-BDS only | pc_eFDD<br>pc_eTDD | |
| 7.3.5.1_1s | E-SMLC initiated Abort: Subtest 1 | Rel-9 | C22es | All UEs supporting UE-based or UE-assisted GNSS with A-GPS only | pc_eFDD<br>pc_eTDD | |
| 7.3.5.1_2s | E-SMLC initiated Abort: Subtest 2 | Rel-9 | C23es | All UEs supporting UE-based or UE-assisted GNSS with A-GLONASS only | pc_eFDD<br>pc_eTDD | |
| 7.3.5.1_3s | E-SMLC initiated Abort: Subtest 3 | Rel-9 | C24es | All UEs supporting UE-based or UE-assisted GNSS with A-Galileo only | pc_eFDD<br>pc_eTDD | |
| 7.3.5.1_4s | E-SMLC initiated Abort: Subtest 4 | Rel-9 | C25es | All UEs supporting UE-based or UE-assisted GNSS with A-GPS and A-GLONASS only | pc_eFDD<br>pc_eTDD | |
| 7.3.5.1_5s | E-SMLC initiated Abort: Subtest 5 | Rel-9 | C26es | All UEs supporting UE Assisted OTDOA | pc_eFDD<br>pc_eTDD | |
| 7.3.5.1_9s | E-SMLC initiated Abort: Subtest 9 | Rel-12 | C42es | All UEs supporting UE-based or UE-assisted GNSS with A-BDS only | pc_eFDD<br>pc_eTDD | |
| 7.3.5.1_10s | E-SMLC initiated Abort: Subtest 10 | Rel-12 | C43es | All UEs supporting UE-based or UE-assisted GNSS with A-GPS and A-BDS only | pc_eFDD<br>pc_eTDD | |
| **7.4** | **Circuit Switched (CS) Fallback** | | | | | |
| 7.4.1.1 | CS fallback: Network does not support EPC-MO-LR | Rel-9 | C12es | All UEs supporting MO-LR procedure for location estimate in the CS fallback in EPS. | pc_eFDD<br>pc_eTDD | |
| 7.4.1.2 | CS fallback: UE does not support EPC-MO-LR | Rel-9 | C13es | All UEs not supporting EPC-MO-LR and supporting MO-LR procedure for location estimate in the CS fallback in EPS. | pc_eFDD<br>pc_eTDD | |
| **7.5** | **RRC Protocol Procedures** | | | | | |
| 7.5.1 | Inter-Frequency RSTD measurement indication | Rel-10 | C37es | All UEs supporting inter-frequency RSTD measurements for OTDOA | pc_eFDD<br>pc_eTDD | |

| Clause | TC Title | Release | Applicability | | Additional Information | |
|---|---|---|---|---|---|---|
| | | | Condition | Comment | Specific ICS | Specific IXIT |
| | | | | that require measurement gaps. | | |

**Table 4-8: Applicability of tests Conditions for test cases in TS 37.571-2 [6] for E-UTRA**

| | |
|---|---|
| C01es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND A.4.3-3/1 AND (A.4.3-2/6 OR A.4.3-2/8) AND NOT (A.4.3-2/7 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C02es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND A.4.3-3/1 AND A.4.3-2/7 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C03es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND A.4.3-3/1 AND A.4.3-2/9 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/18) THEN R ELSE N/A |
| C04es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND A.4.3-3/1 AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND NOT (A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C05es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-3/2 AND (A.4.3-2/6 OR A.4.3-2/8) AND NOT (A.4.3-2/7 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C06es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-3/2 AND A.4.3-2/7 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C07es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-3/2 AND A.4.3-2/9 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/18) THEN R ELSE N/A |
| C08es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-3/2 AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND NOT (A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C09es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/4 AND A.4.3-3/2 THEN R ELSE N/A |
| C10es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/5 AND A.4.3-3/2 THEN R ELSE N/A |
| C11es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/1 THEN R ELSE N/A |
| C12es | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/3 OR A.4.1-1/4) AND A.4.3-3/4 THEN R ELSE N/A |
| C13es | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/3 OR A.4.1-1/4) AND A.4.3-3/4 AND NOT (A.4.3-3/1 AND A.4.3-3/2) THEN R ELSE N/A |
| C14es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/3 THEN R ELSE N/A |
| C15es | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/2 OR A.4.3-2/4 OR A.4.3-2/5) AND NOT(A.4.3-2/2 AND A.4.3-2/4 AND A.4.3-2/5) THEN R ELSE N/A |
| C22es | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND NOT (A.4.3-2/7 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C23es | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/7 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C24es | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/9 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/18) THEN R ELSE N/A |
| C25es | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND NOT (A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C26es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/4 THEN R ELSE N/A |
| C27es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/5 THEN R ELSE N/A |
| C28es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND (A.4.3-2/6 OR A.4.3-2/8) AND NOT (A.4.3-2/7 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C29es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND A.4.3-2/7 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C30es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND A.4.3-2/9 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/18) THEN R ELSE N/A |
| C31es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND NOT (A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C32es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND (A.4.3-2/6 OR A.4.3-2/8) AND NOT (A.4.3-2/7 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C33es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-2/7 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C34es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-2/9 AND NOT (A.4.3-2/6 OR A.4.3-2/7 OR A.4.3-2/8 OR A.4.3-2/18) THEN R ELSE N/A |
| C35es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/7 AND NOT (A.4.3-2/9 OR A.4.3-2/18) THEN R ELSE N/A |
| C36es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/1 AND A.4.4-1/1 THEN R ELSE N/A |
| C37es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/16 THEN R ELSE N/A |
| C38es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND A.4.3-3/1 AND A.4.3-2/18 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/7) THEN R ELSE N/A |
| C39es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND A.4.3-3/1 AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/18 AND NOT (A.4.3-2/9 OR A.4.3-2/7) THEN R ELSE N/A |
| C40es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-3/2 AND A.4.3-2/18 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/7) THEN R ELSE N/A |
| C41es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-3/2 AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/18 AND NOT (A.4.3-2/9 OR A.4.3-2/7) THEN R ELSE N/A |
| C42es | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/18 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/7) THEN R ELSE N/A |
| C43es | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/18 AND NOT (A.4.3-2/9 OR A.4.3-2/7) THEN R ELSE N/A |
| C44es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND A.4.3-2/18 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/7) THEN R ELSE N/A |
| C45es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/18 AND NOT (A.4.3-2/9 OR A.4.3-2/7) THEN R ELSE N/A |
| C46es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-2/18 AND NOT (A.4.3-2/6 OR A.4.3-2/8 OR A.4.3-2/9 OR A.4.3-2/7) THEN R ELSE N/A |
| C47es | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND (A.4.3-2/6 OR A.4.3-2/8) AND A.4.3-2/18 AND NOT (A.4.3-2/9 OR A.4.3-2/7) THEN R ELSE N/A |

# Annex A (normative): ICS proforma for E-UTRA/EPC Generation User Equipment



## A.1 Guidance for completing the ICS proforma

### A.1.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardised manner.

The ICS proforma is subdivided into clauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- ICS proforma tables (for example: UE implementation types, Teleservices, etc).

### A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [8].

#### Item column

The item column contains a number which identifies the item in the table.

#### Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

#### Reference column

The reference column gives reference to the relevant 3GPP core specifications.

#### Release column

The release column indicates the earliest release from which the capability or option is relevant.

#### Mnemonic column

The Mnemonic column contains mnemonic identifiers for each item.

#### Comments column

This column is left blank for particular use by the reader of the present document.

References to items

For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

### A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different clauses of the ICS proforma.

## A.2 Identification of the User Equipment

Identification of the User Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

### A.2.1 Date of the statement

.....

### A.2.2 User Equipment Under Test (UEUT) identification

UEUT name:

.....

.....

Hardware configuration:

.....

.....

.....

Software configuration:

.....

.....

.....

### A.2.3 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

### A.2.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

### A.2.5 ICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

# A.3 Identification of the protocol

This ICS proforma applies to the 3GPP standards listed in the normative references clause of the present document.

# A.4 ICS proforma tables

## A.4.1 UE Implementation Types

**Table A.4.1-1: UE Radio Technologies**

| Item | UE Radio Technologies | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | E-UTRA FDD | | | | Refer to 3GPP TS 36.523-2 [11] Table A.4.1-1/1 |
| 2 | E-UTRA TDD | | | | Refer to 3GPP TS 36.523-2 [11] Table A.4.1-1/2 |
| 3 | UTRA FDD | | | | Refer to 3GPP TS 34.123-2 [12] Table A.1/1 |
| 4 | UTRA TDD | | | | Refer to 3GPP TS 34.123-2 [12] Table A.1/3 |

**Table A.4.1-2: Teleservices**

| Item | Teleservices | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | Emergency call | | | | Refer to 3GPP TS 34.123-2 [12] Table A.2/2 |

## A.4.2 Baseline Implementation Capabilities

**Table A.4.2-1: Supported Protocols**

| Item | Special Conformance Testing Functions | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | LTE Positioning Protocol (LPP) | 36.355 | Rel-9 | pc_LPP | |
| 2 | Support for OMA LPPe | OMA-TS-LPPe-V1.0 | Rel-9 | pc_OMA_LPPe | |

**Table A.4.2-2: Special Conformance Testing Functions**

| Item | Special Conformance Testing Functions | Ref. | Release | Comments |
|---|---|---|---|---|
| 1 | Reset of UE Positioning Stored Information | 36.509 | Rel-9 | E-UTRA |
| 2 | Reset of UE Positioning Stored Information | 34.109 | R99 | UTRA |

## A.4.3 UE Positioning Capabilities

**Table A.4.3-1: UTRA UE positioning capabilities**

| Item | Services Capabilities | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | Support for IPDL | 25.306, 4.8 | R99 | pc_UE_PositioningIPDL_Sup | |
| 2 | Support of GPS timing of cell frames | 25.306, 4.8 | R99 | pc_UE_PositioningGPS_TimingOfCellFramesSup | |
| 3 | Support of UE-based OTDOA | 25.306, 4.8 | R99 | pc_UE_PositioningBasedOTDOA_Sup | |
| 4 | Support of Standalone location method | 25.306, 4.8 | R99 | pc_UE_PositioningStandaloneLocMethodsSup | |
| 5 | Support of UE-Based A-GANSS | 25.306, 4.8 | Rel-8 | pc_UEB_A_GANSS | |
| 6 | Support of UE-Assisted A-GANSS | 25.306, 4.8 | Rel-8 | pc_UEA_A_GANSS | |
| 7 | Support for GLONASS | 25.306, 4.8 | Rel-8 | pc_GLONASS | NOTE |
| 8 | Support for Modernized GPS | 25.306, 4.8 | Rel-8 | pc_MGPS | NOTE |
| 9 | Support for Galileo | 25.306, 4.8 | Rel-8 | pc_GALILEO | NOTE |
| 10 | Support of UE based Network Assisted GPS L1 C/A | 25.306, 4.8 | R99 | pc_UeBasedAgps | |
| 11 | Support of UE assisted Network Assisted GPS L1 C/A | 25.306, 4.8 | R99 | pc_UeAssistedAgps | |
| 12 | Support of Fine Time Assistance | 25.171, 4.4 | Rel-6 | | |
| 13 | Support for BDS | 25.306, 4.8 | Rel-12 | pc_BDS | NOTE |
| NOTE: If the capability is supported by the UE, then A.4.3-1/5 or A.4.3-1/6 must be supported as well. | | | | | |

**Table A.4.3-2: E-UTRA UE Positioning Capabilities**

| Item | UE Positioning Capabilities | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | Support of UE based Assisted-GNSS | 36.355 | Rel-9 | pc_UEB_AGNSS | This implies support of LPP A.4.2-1/1 |
| 2 | Support of UE assisted Assisted-GNSS | 36.355 | Rel-9 | pc_UEA_AGNSS | This implies support of LPP A.4.2-1/1 |
| 3 | Support of GNSS Fine Time Assistance | 36.355 | Rel-9 | pc_GNSS_FTA | This implies support of LPP A.4.2-1/1 |
| 4 | Support of UE assisted OTDOA | 36.355 | Rel-9 | pc_OTDOA | This implies support of LPP A.4.2-1/1 |
| 5 | Support of UE assisted ECID | 36.355 | Rel-9 | pc_ECID | This implies support of LPP A.4.2-1/1 |
| 6 | Support for A-GPS L1C/A | 36.355 | Rel-9 | pc_A_GPS_L1C_A | This implies support of LPP A.4.2-1/1 |
| 7 | Support for A-GLONASS | 36.355 | Rel-9 | pc_A_GLONASS | This implies support of LPP A.4.2-1/1 |
| 8 | Support for A-GPS L1C/A and Modernized GPS | 36.355 | Rel-9 | pc_A_GPS_L1C_A_MGPS | This implies support of LPP A.4.2-1/1 |
| 9 | Support for A-Galileo | 36.355 | Rel-9 | pc_A_Galileo | This implies support of LPP A.4.2-1/1 |
| 10 | Support of UE Fine Time Assistance measurements for UE-based Assisted-GNSS | 36.355 | Rel-9 | pc_GNSS_FTA_UEB | This implies support of LPP A.4.2-1/1 |
| 11 | Support of UE Fine Time Assistance measurements for UE-assisted Assisted-GNSS | 36.355 | Rel-9 | pc_GNSS_FTA_UEA | This implies support of LPP A.4.2-1/1 |
| 12 | Support of GNSS Acquisition Assistance | 36.355; 37.571-2, 5.4.1 | Rel-9 | pc_GNSS_AA | This implies support of LPP A.4.2-1/1 |
| 13 | Support for A-SBAS | 36.355 | Rel-9 | pc_A_SBAS | |
| 14 | Support for A-QZSS | 36.355 | Rel-9 | pc_A_QZSS | |
| 15 | Support of UE assisted OTDOA for Carrier Aggregation | 36.355 | Rel-10 | pc_OTDOA_CA | This implies support of LPP A.4.2-1/1 |
| 16 | Support of inter-frequency RSTD measurements that require measurement gaps | 36.355 | Rel-10 | pc_InterFreq_RSTD_with Gaps | This implies support of UE assisted OTDOA A.4.3-2/4 |
| 17 | Support of inter-frequency RSTD measurements | 36.355 | Rel-10 | pc_InterFreq_RSTD | This implies support of UE assisted OTDOA A.4.3-2/4 |
| 18 | Support for A-BDS | 36.355 | Rel-12 | pc_A_BDS | This implies support of LPP A.4.2-1/1 |

**Table A.4.3-3: Supplementary Services**

| Item | UE Positioning Capabilities | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | Support of EPC-MO-LR request for assistance data | 24.171; 24.030; 24.080 | Rel-9 | pc_EPC_MO_LR_RequestAssistanceData | |
| 2 | Support of EPC-MO-LR request for a position estimate | 24.171; 24.030; 24.080 | Rel-9 | pc_EPC_MO_LR_RequestPositionEstimate | |
| 3 | Support of EPC-MT-LR Location Notification | 24.171; 24.030; 24.080 | Rel-9 | pc_MT_LR_loc_notif | |
| 4 | Support for CS-MO-LR with CS Fallback for a position estimate | 23.272 | Rel-9 | pc_CS_MO_LR_CSFallback | |
| 5 | Support of MO-LR request for assistance data | 24.030, 5.1.1;24.080, 4.4.3.44;23.171, 8.1.1 | R99 | pc_ParamGpsAssisData | UTRA |
| 6 | Support of MO-LR request for a position estimate | 23.171, 8.1.1 | R99 | pc_ParamPosEstimate | UTRA |
| 7 | Support of MO-LR request for transfer to 3rd party | 23.171, 8.1.1 | R99 | pc_ParamXfer3rdPty | UTRA |
| 8 | Support of MT-LR LCS value added location request notification capability | 24.030;23.271 | R99 | pc_MT_LR | UTRA |

**Table A.4.3-4: E-CID Measurements**

| Item | UE Positioning Capabilities | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | RSRP Supported | 36.355, 6.5.3.4 | Rel-9 | pc_ECID_Rsrp | E-UTRA |
| 2 | RSRQ Supported | 36.355, 6.5.3.4 | Rel-9 | pc_ECID_Rsrq | E-UTRA |
| 3 | UE Rx-Tx Time Difference Supported | 36.355, 6.5.3.4 | Rel-9 | pc_ECID_ UeRxTx | E-UTRA |

**Table A.4.3-5: GNSS Signals**

| Item | GNSS Signals Capabilities | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | Support of A-GPS L1C signal | 36.355, 6.5.2.13 | Rel-9 | pc_A_GPS_L1C | E-UTRA |
| 2 | Support of A-GPS L2C signal | 36.355, 6.5.2.13 | Rel-9 | pc_A_GPS_L2C | E-UTRA |
| 3 | Support of A-GPS L5 signal | 36.355, 6.5.2.13 | Rel-9 | pc_A_GPS_L5 | E-UTRA |
| 4 | Support of QZS-L1 signal in QZSS | 36.355, 6.5.2.13 | Rel-9 | pc_QZSS_QZS_L1 | E-UTRA |
| 5 | Support of QZS-L1C signal in QZSS | 36.355, 6.5.2.13 | Rel-9 | pc_QZSS_QZS_L1C | E-UTRA |
| 6 | Support of QZS-L2C signal in QZSS | 36.355, 6.5.2.13 | Rel-9 | pc_QZSS_QZS_L2C | E-UTRA |
| 7 | Support of QZS-L5 signal in QZSS | 36.355, 6.5.2.13 | Rel-9 | pc_QZSS_QZS_L5 | E-UTRA |
| 8 | Support of G1 signal in Glonass | 36.355, 6.5.2.13 | Rel-9 | pc_GLONASS_G1 | E-UTRA |
| 9 | Support of G2 signal in Glonass | 36.355, 6.5.2.13 | Rel-9 | pc_GLONASS_G2 | E-UTRA |
| 10 | Support of G3 signal in Glonass | 36.355, 6.5.2.13 | Rel-9 | pc_GLONASS_G3 | E-UTRA |
| 11 | Support of E1 signal in Galileo | 36.355, 6.5.2.13 | Rel-9 | pc_GALILEO_E1 | E-UTRA |
| 12 | Support of E5a signal in Galileo | 36.355, 6.5.2.13 | Rel-9 | pc_GALILEO_E5a | E-UTRA |
| 13 | Support of E5b signal in Galileo | 36.355, 6.5.2.13 | Rel-9 | pc_GALILEO_E5b | E-UTRA |
| 14 | Support of E6 signal in Galileo | 36.355, 6.5.2.13 | Rel-9 | pc_GALILEO_E6 | E-UTRA |
| 15 | Support of E5a+E5b signal in Galileo | 36.355, 6.5.2.13 | Rel-9 | pc_GALILEO_E5aE5b | E-UTRA |
| 16 | Support of B1I signal in BDS | 36.355, 6.5.2.13 | Rel-12 | pc_BDS_ B1I | E-UTRA |

**Table A.4.3-6: ADR and Velocity Measurements**

| Item | ADR and Velocity Measurements | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | Support of ADR measurement reporting for Gps | 36.355, 6.5.2.9 | Rel-9 | pc_A_GPS_ADR | E-UTRA |
| 2 | Support of ADR measurement reporting for Sbas | 36.355, 6.5.2.9 | Rel-9 | pc_SBAS_ADR | E-UTRA |
| 3 | Support of ADR measurement reporting for Qzss | 36.355, 6.5.2.9 | Rel-9 | pc_QZSS_ADR | E-UTRA |
| 4 | Support of ADR measurement reporting for Galileo | 36.355, 6.5.2.9 | Rel-9 | pc_GALILEO_ADR | E-UTRA |
| 5 | Support of ADR measurement reporting for Glonass | 36.355, 6.5.2.9 | Rel-9 | pc_GLONASS_ADR | E-UTRA |
| 6 | Support of Velocity measurement reporting for Gps | 36.355, 6.5.2.9 | Rel-9 | pc_A_GPS_VelocityMeas | E-UTRA |
| 7 | Support of Velocity measurement reporting for Sbas | 36.355, 6.5.2.9 | Rel-9 | pc_SBAS_VelocityMeas | E-UTRA |
| 8 | Support of Velocity measurement reporting for Qzss | 36.355, 6.5.2.9 | Rel-9 | pc_QZSS_VelocityMeas | E-UTRA |
| 9 | Support of Velocity measurement reporting for Galileo | 36.355, 6.5.2.9 | Rel-9 | pc_GALILEO_VelocityMeas | E-UTRA |
| 10 | Support of Velocity measurement reporting for Glonass | 36.355, 6.5.2.9 | Rel-9 | pc_GLONASS_VelocityMeas | E-UTRA |
| 11 | Support of ADR measurement reporting for BDS | 36.355, 6.5.2.9 | Rel-12 | pc_BDS_ADR | E-UTRA |
| 12 | Support of Velocity measurement reporting for BDS | 36.355, 6.5.2.9 | Rel-12 | pc_BDS_VelocityMeas | E-UTRA |

**Table A.4.3-7: GNSS Assistance Data Support**

| Item | GNSS Assistance Data Support | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | Gnss-ReferenceTimeSupport (Common Assistance Data) | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_RefTimeSup | E-UTRA |
| 2 | Gnss-ReferenceLocationSupport (Common Assistance Data) | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_RefLocSup | E-UTRA |
| 3 | Gnss-IonosphericModelSupport (Common Assistance Data) | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_IonoModSup | E-UTRA |
| 4 | Gnss-EarthOrientationParametersSupport (Common Assistance Data) | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_EOPSup | E-UTRA |
| 5 | Gnss-TimeModelsSupport for gps | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_TimeModSup_Gps | E-UTRA |
| 6 | Gnss-TimeModelsSupport for sbas | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_TimeModSup_Sbas | E-UTRA |
| 7 | Gnss-TimeModelsSupport for qzss | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_TimeModSup_Qzss | E-UTRA |
| 8 | Gnss-TimeModelsSupport for galileo | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_TimeModSup_Galileo | E-UTRA |
| 9 | Gnss-TimeModelsSupport for glonass | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_TimeModSup_Glonass | E-UTRA |
| 10 | Gnss-DifferentialCorrectionsSupport for gps | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_DGNSS_Sup_Gps | E-UTRA |
| 11 | Gnss-DifferentialCorrectionsSupport for sbas | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_DGNSS_Sup_Sbas | E-UTRA |
| 12 | Gnss-DifferentialCorrectionsSupport for qzss | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_DGNSS_Sup_Qzss | E-UTRA |
| 13 | Gnss-DifferentialCorrectionsSupport for galileo | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_DGNSS_Sup_Galileo | E-UTRA |
| 14 | Gnss-DifferentialCorrectionsSupport for glonass | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_DGNSS_Sup_Glonass | E-UTRA |
| 15 | Gnss-NavigationModelSupport for gps | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_NavModSup_Gps | E-UTRA |
| 16 | Gnss-NavigationModelSupport for sbas | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_NavModSup_Sbas | E-UTRA |
| 17 | Gnss-NavigationModelSupport for qzss | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_NavModSup_Qzss | E-UTRA |
| 18 | Gnss-NavigationModelSupport for galileo | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_NavModSup_Galileo | E-UTRA |
| 19 | Gnss-NavigationModelSupport for glonass | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_NavModSup_Glonass | E-UTRA |
| 20 | Gnss-RealTimeIntegritySupport for gps | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_RTISup_Gps | E-UTRA |
| 21 | Gnss-RealTimeIntegritySupport for sbas | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_RTISup_Sbas | E-UTRA |
| 22 | Gnss-RealTimeIntegritySupport for qzss | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_RTISup_Qzss | E-UTRA |
| 23 | Gnss-RealTimeIntegritySupport for galileo | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_RTISup_Galileo | E-UTRA |
| 24 | Gnss-RealTimeIntegritySupport for glonass | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_RTISup_Glonass | E-UTRA |
| 25 | Gnss-DataBitAssistanceSupport for gps | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_DataBitsSup_Gps | E-UTRA |
| 26 | Gnss-DataBitAssistanceSupport for sbas | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_DataBitsSup_Sbas | E-UTRA |
| 27 | Gnss-DataBitAssistanceSupport for qzss | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_DataBitsSup_Qzss | E-UTRA |
| 28 | Gnss-DataBitAssistanceSupport for galileo | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_DataBitsSup_Galileo | E-UTRA |
| 29 | Gnss-DataBitAssistanceSupport for glonass | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_DataBitsSup_Glonass | E-UTRA |
| 30 | Gnss-AcquisitionAssistanceSupport for gps | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AcquAssistSup_Gps | E-UTRA |

| | | | | | |
|---|---|---|---|---|---|
| 31 | Gnss-AcquisitionAssistanceSupport for sbas | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AcquAssistSup_Sbas | E-UTRA |
| 32 | Gnss-AcquisitionAssistanceSupport for qzss | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AcquAssistSup_Qzss | E-UTRA |
| 33 | Gnss-AcquisitionAssistanceSupport for galileo | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AcquAssistSup_Galileo | E-UTRA |
| 34 | Gnss-AcquisitionAssistanceSupport for glonass | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AcquAssistSup_Glonass | E-UTRA |
| 35 | Gnss-AlmanacSupport for gps | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AlmanacSup_Gps | E-UTRA |
| 36 | Gnss-AlmanacSupport for sbas | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AlmanacSup_Sbas | E-UTRA |
| 37 | Gnss-AlmanacSupport for qzss | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AlmanacSup_Qzss | E-UTRA |
| 38 | Gnss-AlmanacSupport for galileo | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AlmanacSup_Galileo | E-UTRA |
| 39 | Gnss-AlmanacSupport for glonass | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AlmanacSup_Glonass | E-UTRA |
| 40 | Gnss-UTC-ModelSupport for gps | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_UTCModSup_Gps | E-UTRA |
| 41 | Gnss-UTC-ModelSupport for sbas | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_UTCModSup_Sbas | E-UTRA |
| 42 | Gnss-UTC-ModelSupport for qzss | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_UTCModSup_Qzss | E-UTRA |
| 43 | Gnss-UTC-ModelSupport for galileo | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_UTCModSup_Galileo | E-UTRA |
| 44 | Gnss-UTC-ModelSupport for glonass | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_UTCModSup_Glonass | E-UTRA |
| 45 | Gnss-AuxiliaryInformationSupport for gps | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AuxInfoSup_Gps | E-UTRA |
| 46 | Gnss-AuxiliaryInformationSupport for sbas | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AuxInfoSup_Sbas | E-UTRA |
| 47 | Gnss-AuxiliaryInformationSupport for qzss | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AuxInfoSup_Qzss | E-UTRA |
| 48 | Gnss-AuxiliaryInformationSupport for galileo | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AuxInfoSup_Galileo | E-UTRA |
| 49 | Gnss-AuxiliaryInformationSupport for glonass | 36.355, 6.5.2.9 | Rel-9 | pc_GNSS_AuxInfoSup_Glonass | E-UTRA |
| 50 | Gnss-TimeModelsSupport for BDS | 36.355, 6.5.2.9 | Rel-12 | pc_GNSS_TimeModSup_BDS | E-UTRA |
| 51 | Gnss-DifferentialCorrectionsSupport for BDS | 36.355, 6.5.2.9 | Rel-12 | pc_GNSS_DGNSS_Sup_BDS | E-UTRA |
| 52 | Gnss-NavigationModelSupport for BDS | 36.355, 6.5.2.9 | Rel-12 | pc_GNSS_NavModSup_BDS | E-UTRA |
| 53 | Gnss-RealTimeIntegritySupport for BDS | 36.355, 6.5.2.9 | Rel-12 | pc_GNSS_RTISup_BDS | E-UTRA |
| 54 | Gnss-DataBitAssistanceSupport for BDS | 36.355, 6.5.2.9 | Rel-12 | pc_GNSS_DataBitsSup_BDS | E-UTRA |
| 55 | Gnss-AcquisitionAssistanceSupport for BDS | 36.355, 6.5.2.9 | Rel-12 | pc_GNSS_AcquAssistSup_BDS | E-UTRA |
| 56 | Gnss-AlmanacSupport for BDS | 36.355, 6.5.2.9 | Rel-12 | pc_GNSS_AlmanacSup_BDS | E-UTRA |
| 57 | Gnss-UTC-ModelSupport for BDS | 36.355, 6.5.2.9 | Rel-12 | pc_GNSS_UTCModSup_BDS | E-UTRA |
| 58 | Gnss-AuxiliaryInformationSupport for BDS | 36.355, 6.5.2.9 | Rel-12 | pc_GNSS_AuxInfoSup_BDS | E-UTRA |
| 59 | bds-DifferentialCorrectionsSupport | 36.355, 6.5.2.9 | Rel-12 | pc_BDS_DiffCorr | E-UTRA |
| 60 | bds-GridModelSupport | 36.355, 6.5.2.9 | Rel-12 | pc_BDS_GridMod | E-UTRA |

**Table A.4.3-8: Location Coordinate Types**

| Item | Location Coordinate Types | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | Ellipsoid Point Support | 36.355, 6.4.1 | Rel-9 | pc_GNSS_EllipPoint | E-UTRA |
| 2 | Ellipsoid Point With Uncertainty Circle Support | 36.355, 6.4.1 | Rel-9 | pc_GNSS_EllipPoint UncertCircle | E-UTRA |
| 3 | Ellipsoid Point With Uncertainty Ellipse Support | 36.355, 6.4.1 | Rel-9 | pc_GNSS_EllipPoint UncertEllip | E-UTRA |
| 4 | Polygon Support | 36.355, 6.4.1 | Rel-9 | pc_GNSS_Polygon | E-UTRA |
| 5 | Ellipsoid Point With Altitude Support | 36.355, 6.4.1 | Rel-9 | pc_GNSS_EllipPoint Alt | E-UTRA |
| 6 | Ellipsoid Point With Altitude And Uncertainty Ellipsoid Support | 36.355, 6.4.1 | Rel-9 | pc_GNSS_EllipPoint AltUncertEllip | E-UTRA |
| 7 | Ellipsoid Arc Support | 36.355, 6.4.1 | Rel-9 | pc_GNSS_EllipArc | E-UTRA |

**Table A.4.3-9: Velocity Types**

| Item | Velocity Types | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | Horizontal Velocity Support | 36.355, 6.4.1 | Rel-9 | pc_GNSS_HVel | E-UTRA |
| 2 | Horizontal With Vertical Velocity Support | 36.355, 6.4.1 | Rel-9 | pc_GNSS_HVVel | E-UTRA |
| 3 | Horizontal Velocity With Uncertainty Support | 36.355, 6.4.1 | Rel-9 | pc_GNSS_HVelUncert | E-UTRA |
| 4 | Horizontal With Vertical Velocity And Uncertainty Support | 36.355, 6.4.1 | Rel-9 | pc_GNSS_HVVelUncert | E-UTRA |

## A.4.4 Additional information

**Table A.4.4-1: Additional information**

| Item | Additional information | Ref. | Release | Mnemonic | Comments |
|---|---|---|---|---|---|
| 1 | Support of sending of acknowledgement request in LPP Provide Capabilities message. | 36.355, 4.3.3 | Rel-9 | pc_LPP_SendingACK_ProvideCapabilities | E-UTRA |

**Table A.4.4-2: Additional UE radio access capabilities (Mandatory for Rel-11and onward)**

| Item | Additional capabilities | Ref. | Release | Status (Note 1) | Support Yes/No (Note 2) | Mnemonic | Comments |
|---|---|---|---|---|---|---|---|
| 1 | UE supports CRS interference handling | 36.306, 4.3.4.15 | Rel-11 | O.01 | | pc_CRS_Interference | This is a Rel-11 Mandatory feature |
| 2 | UE supports ss-CCH interference handling | 36.306, 4.3.4.20 | Rel-11 | O.01 | | pc_ssCCH_Interference | This is a Rel-11 Mandatory feature |

Note 1: From Rel-11 onwards 3GPP TSG RAN has introduced the following principles (TS 36.306 [13] clause 4): 'For optional features, the UE radio access capability parameter indicates whether the feature has been implemented and successfully tested. For mandatory features with the UE radio access capability parameter, the parameter indicates whether the feature has been successfully tested.'
Reflecting this situation, in the present table the status for Mandatory features would be indicated as conditional Optional (O.xx) until IOT testing availability is ensured. The decision when IOT testing availability can be considered ensured is made by 3GPP TSG RAN. After the 3GPP TSG RAN decision that IOT testing is available, the status of the capability parameter will be changed to Mandatory (M) and the release from which this requirement apply would be explicitly stated.

Note 2: If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release.

**Table A.4.4-3: Additional UE radio access capabilities conditions**

| | |
|---|---|
| O.01 | IF The feature has been IOT-ed THEN Support shall be indicated ELSE Support shall not be indicated |

# Annex B (informative): Change history

| Change history | | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | TSG # | TSG Doc. | CR | Rev | Subject/Comment | Old | New |
| **36.571-3** | | | | | | | |
| 2010-08 | RAN5#48 | R5-104317 | - | - | Initial version | | 0.0.0 |
| 2011-02 | RAN5#50 | R5-110253 | - | - | Addition of test case applicability | 0.0.0 | 0.1.0 |
| 2011-08 | RAN5#52 | R5-113273 | - | - | Addition of E-CID and OTDOA performance test case applicability | 0.1.0 | |
| | | R5-113139 | - | - | Addition of UE Network Capability test case | | |
| | | R5-113773 | - | - | Addition of Notification test cases | | |
| | | R5-113148 | - | - | Addition of Position Capability Transfer test case | | 1.0.0 |
| **37.571-3** | | | | | | | |
| 2011-11 | RAN5#53 | R5-115253 | - | - | Creation of 37.571-3 based on 36.571-3 v1.0.0, 34.123-2 v9.6.0, 34.171 v9.3.0 and 34.172 va.1.0 | - | 1.0.0 |
| - | - | R5-115254 | - | - | Corrections to the 37.571-3 baseline text | - | - |
| - | - | R5-115255 | - | - | Addition of missing test case applicability to the 37.571-3 baseline text | - | - |
| - | - | R5-115256 | - | - | Applicable Release for UMTS A-GNSS Test Cases in 37.571-3 baseline text | - | 2.0.0 |
| 2011-12 | RAN#54 | - | - | - | Moved to Rel-9 with editorial changes only. | 2.0.0 | 9.0.0 |
| 2012-03 | RAN#55 | R5-120365 | 0001 | - | Addition of missing test case applicability for test cases 7.3.4.1, 7.3.4.2, 7.3.4.3, and 7.3.4.4 | 9.0.0 | 9.1.0 |
| 2012-03 | RAN#55 | R5-120529 | 0002 | - | Remove redundant mnemonics | 9.0.0 | 9.1.0 |
| 2012-06 | RAN#56 | - | - | - | Upgraded to v10.0.0 with no change. | 9.1.0 | 10.0.0 |
| 2012-09 | RAN#57 | R5-123689 | 0003 | - | Correction of sub-test names and PICS names | 10.0.0 | 10.1.0 |
| 2012-09 | RAN#57 | R5-123689 | 0003 | - | Addition of missing sub test cases name change | 10.1.0 | 10.1.1 |
| 2012-12 | RAN#58 | R5-125119 | 0004 | - | Add new PICS and post-fix for conditions | 10.1.1 | 10.2.0 |
| 2012-12 | RAN#58 | R5-124121 | 0006 | - | Applicabilities for new test cases 10.1 - 10.4 for RSTD for Carrier Aggregation | 10.1.1 | 10.2.0 |
| 2013-03 | RAN#59 | R5-130594 | 0007 | - | Correction of applicability for TC 7.3.2.3 | 10.2.0 | 10.3.0 |
| 2013-04 | - | - | - | - | fix of history table | 10.3.0 | 10.3.1 |
| 2013-06 | RAN#60 | R5-131305 | 0008 | - | Correction of applicability for LTE UE Positioning test cases | 10.3.1 | 10.4.0 |
| 2013-06 | RAN#60 | R5-131328 | 0009 | - | Applicability for new test case 7.5.1 for inter-frequency RSTD measurement indication procedure | 10.3.1 | 10.4.0 |
| 2013-06 | RAN#60 | R5-131995 | 0010 | - | Applicabilities for new TDD inter-frequency tests 9.2.2 and 9.2.5 | 10.3.1 | 10.4.0 |
| 2013-06 | RAN#60 | R5-131996 | 0011 | - | Addition of the Applicability for FDD-FDD inter-frequency RSTD Test Cases | 10.3.1 | 10.4.0 |
| 2013-06 | RAN#60 | R5-132011 | 0012 | - | Corrections and clarifications to Applicabilities tables | 10.3.1 | 10.4.0 |
| 2013-09 | RAN#61 | R5-133633 | 0013 | - | Correction to 7.3.3.1 | 10.4.0 | 10.5.0 |
| 2013-12 | RAN#62 | R5-134203 | 0014 | - | Corrections to Applicabilities C12es and C13es | 10.5.0 | 10.6.0 |
| 2013-12 | RAN#62 | R5-134204 | 0015 | - | Addition of Applicabilities for 9.2.1 - 9.2.5 | 10.5.0 | 10.6.0 |
| 2013-12 | RAN#62 | R5-134911 | 0016 | - | Change Applicability of test 7.3.5.1 | 10.5.0 | 10.6.0 |
| 2013-12 | RAN#62 | R5-134981 | 0017 | - | Applicabilities for new tests 10.1a, 10.2a, 10.3a and 10.4a | 10.5.0 | 10.6.0 |
| 2014-06 | RAN#64 | R5-142102 | 0018 | - | Correction to test case title in the Applicability Table 4-1 and Table 4-3 | 10.6.0 | 10.7.0 |
| 2014-06 | RAN#64 | R5-142406 | 0019 | - | Correction of conditions of C26es and C27es. | 10.6.0 | 10.7.0 |
| 2014-09 | RAN#65 | - | - | - | Upgraded to v11.0.0 with no change | 10.7.0 | 11.0.0 |
| 2014-09 | RAN#65 | R5-144843 | 0020 | - | Applicability for new 10+5 and 5+5 RSTD related test cases | 11.0.0 | 12.0.0 |
| 2014-12 | RAN#66 | R5-145263 | 0021 | - | Applicability table update for RRM CA test cases in clause 10 to avoid redundant testing | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145388 | 0022 | - | Addition of Beidou | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145843 | 0023 | - | Introduction of feICIC applicability statement for UE Rx-TX Time Difference test cases | 12.0.0 | 12.1.0 |
| 2014-12 | RAN#66 | R5-145894 | 0024 | - | Add BDS testing contents in TS37.571-3 | 12.0.0 | 12.1.0 |

# History

| Document history | | |
|---|---|---|
| V12.0.0 | September 2014 | Publication |
| V12.1.0 | January 2015 | Publication |
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