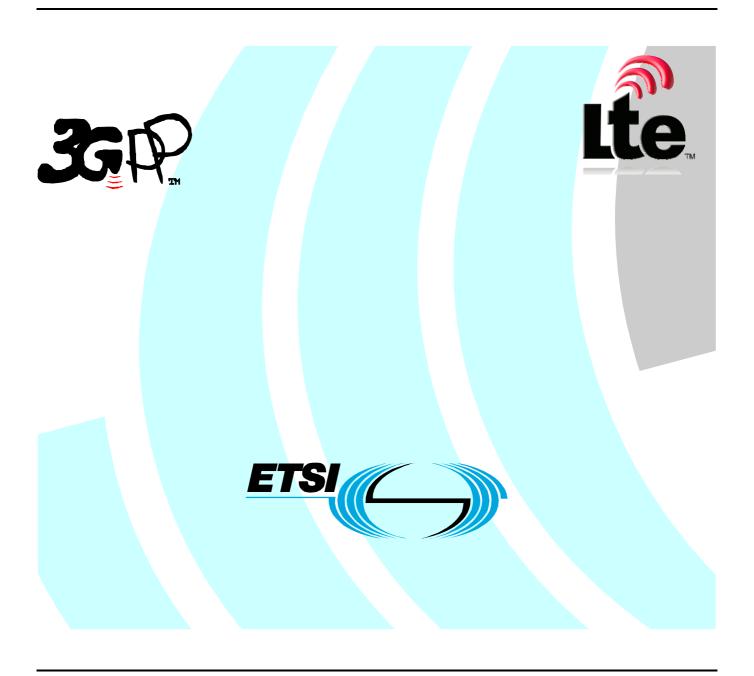
ETSITS 136 521-2 V9.3.0 (2011-01)

Technical Specification

LTE;

Evolved Universal Terrestrial Radio Access (E-UTRA);
User Equipment (UE) conformance specification;
Radio transmission and reception;
Part 2: Implementation Conformance Statement (ICS)
(3GPP TS 36.521-2 version 9.3.0 Release 9)



Reference RTS/TSGR-0536521-2v930 Keywords LTE

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

The present document is part 2 of a multi-parts TS:

3GPP TS 36.521-1 [1]: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 1: Conformance testing.

3GPP TS 36.521-2: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part :2 Implementation Conformance Statement (ICS).

3GPP TS 36.521-3 [2]: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 3: Radio Resource Management (RRM) Conformance Testing.

1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 3G Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE), in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4]

The present document specifies the recommended applicability statement for the test cases included in 3GPP TS 36.521-1 [1] and 3GPP TS 36.521-3 [2]. These applicability statements are based on the features implemented in the

Special conformance testing functions can be found in 3GPP TS 36.509 [5] and the common test environments are included in 3GPP TS 36.508 [6].

The present document is valid for UE implemented according to 3GPP releases starting from Release 8 up to the Release indicated on the cover page of the present document.

2 References

[9]

[10]

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.
 - For a Release 8 UE, references to 3GPP documents are to version 8.x.y, when available.

| Editor's Note: The Reference list is incomplete and some references are still to UMTS specs. | | | | | | |
|--|---|--|--|--|--|--|
| [1] | 3GPP TS 36.521-1: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 1: Conformance testing ". | | | | | |
| [2] | 3GPP TS 36.521-3: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 3: Radio Resource Management Conformance Testing ". | | | | | |
| [3] | ISO/IEC 9646-1: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts". | | | | | |
| [4] | ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements". | | | | | |
| [5] | 3GPP TS 36.509: " Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing functions for User Equipment ". | | | | | |
| [6] | 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA); Common Test Environments for User Equipment (UE) Conformance Testing". | | | | | |
| [8] | 3GPP TR 21.905: "Vocabulary for 3GPP Specifications". | | | | | |

3GPP TS 36.302: " Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by

3GPP TS 36.201: "LTE Physical Layer - General Description"

the physical layer for E-UTRA".

| [12] | 3GPP TS 36.322: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification". |
|------|---|
| [13] | 3GPP TS 36.323: "Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification". |
| [14] | 3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC) Protocol Specification". |
| [15] | 3GPP TS 24.301: "Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3" |
| [16] | 3GPP TS 36.307: "Requirements on User Equipments (UEs) Supporting a release-independent frequency band". |

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 [8]
- such given in ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4]

NOTE: Some terms and abbreviations defined in [3] and [4] are explicitly included below with small modification to reflect the terminology used in 3GPP.

3.1 Definitions

Implementation Conformance Statement (ICS): 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: 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 abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [8].

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

ICSImplementation Conformance StatementIXITImplementation eXtra Information for TestingPICSProtocol Implementation Conformance StatementPIXITProtocol Implementation eXtra Information for Testing

RRM Radio Resource Management SCS System Conformance Statement

TC Test Case

UEUT User Equipment Under Test

4 Recommended test case applicability

The applicability of each individual test is identified in the tables 4.1-1 or 4.2-1. 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 4.1-1 / 4.2-1 have the following meaning:

Clause

The clause column indicates the clause number in TS 36.521-1 [1] or respectively TS 36.521-3 [2] 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 36.521-1 [1] or TS 36.521-3 [2] that contains the test body.

Release

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

Applicability - Condition

The following notations are used for the applicability column:

R recommended - the test case is recommended to all terminals supporting E-UTRA

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.

Applicability - Comments

This comments column contains a verbal description of the condition included in the applicability column.

Additional Information

This column contains indication if the test case may perform differently depending on the UE capabilities.

NOTE To meet the validation requirements from certification bodies then there is a need to uniquely reference the FDD and TDD branch (i.e. different behaviour within one and the same TC) of common FDD and TDD test cases. The FDD and TDD branches of common FDD and TDD test cases can be referenced by amending a "FDD" or "TDD" suffix to the test case clause number. For example for test case 6.2.2 the FDD and TDD branches can be identified by "6.2.2 FDD" and "6.2.2 TDD".

4.1 RF conformance test cases

Table 4.1-1: Applicability of RF conformance test cases, ref. TS 36.521-1 [1]

| Clause | Title | Release | Applicability | | Additional |
|-----------|--|---------|---------------|------------------------------|-------------|
| | | | Condition | Comments | Information |
| Transmite | er Characteristics | | | | • |
| 6.2.2 | UE Maximum Output Power | Rel-8 | R | UE supporting E-UTRA | FDD |
| | | | | | TDD |
| 6.2.3 | Maximum Power Reduction (MPR) | Rel-8 | R | UE supporting E-UTRA | FDD |
| | | | | | TDD |
| 6.2.4 | Additional Maximum Power Reduction (A-MPR) | Rel-8 | R | UE supporting E-UTRA | FDD |
| | | | | | TDD |
| 6.2.5 | Configured UE transmitted Output Power | Rel-8 | R | UE supporting E-UTRA | FDD |
| | | | | | TDD |
| 6.3.1 | Void | | | | |
| 6.3.2 | Minimum Output Power | Rel-8 | R | UE supporting E-UTRA | FDD |
| 000 | Transmit OFF Davier | Dalo | | LIC averagetic a C LITDA | TDD |
| 6.3.3 | Transmit OFF Power | Rel-8 | R | UE supporting E-UTRA | FDD TDD |
| 6.3.4.1 | General ON/OFF time mask | Rel-8 | R | UE supporting E-UTRA | FDD |
| 0.3.4.1 | General ON/OFF time mask | Kei-o | K | DE supporting E-OTRA | TDD |
| 6.3.4.2.1 | PRACH time mask | Rel-8 | R | UE supporting E-UTRA | FDD |
| 0.3.4.2.1 | FRACIT tille Illask | Kel-0 | K | OL supporting L-OTKA | TDD |
| 6.3.4.2.2 | SRS time mask | Rel-8 | R | UE supporting E-UTRA | FDD |
| 0.5.4.2.2 | SING time mask | IXEI-0 | IX. | OL Supporting E-OTTA | TDD |
| 6.3.5.1 | Power Control Absolute Power Tolerance | Rel-8 | R | UE supporting E-UTRA | FDD |
| | Toloranos | | | | TDD |
| 6.3.5.2 | Power Control Relative Power Tolerance | Rel-8 | R | UE supporting E-UTRA | FDD |
| | | | | | TDD |
| 6.3.5.3 | Aggregate Power Control Tolerance | Rel-8 | R | UE supporting E-UTRA | FDD |
| 0.5.4 | | D 10 | | | TDD |
| 6.5.1 | Frequency Error | Rel-8 | R | UE supporting E-UTRA | FDD |
| 6.5.2.1 | Error Vector Magnitude (EVM) | Rel-8 | R | UE supporting E-UTRA | TDD FDD |
| 0.5.2.1 | Effor vector Magnitude (EVM) | Kei-o | K | DE supporting E-OTRA | TDD |
| 6.5.2.1A | PUSCH-EVM with exclusion period | Rel-8 | R | UE supporting E-UTRA | FDD |
| | polica | | | | TDD |
| 6.5.2.2 | Carrier leakage | Rel-8 | R | UE supporting E-UTRA | FDD |
| 0.0.2.2 | Camer realitage | | | o = supporting = o · · · · · | TDD |
| 6.5.2.3 | In-band emissions for non allocated RB | Rel-8 | R | UE supporting E-UTRA | FDD |
| | | | | | TDD |
| 6.5.2.4 | EVM equalizer spectrum flatness | Rel-8 | R | UE supporting E-UTRA | FDD |
| | | | | | TDD |
| 6.6.1 | Occupied bandwidth | Rel-8 | R | UE supporting E-UTRA | FDD |
| | | | | | TDD |
| 6.6.2.1 | Spectrum Emission Mask | Rel-8 | R | UE supporting E-UTRA | FDD TDD |
| 6.6.2.2 | Additional Spectrum Emission Mask | Rel-8 | R | UE supporting E-UTRA | FDD |
| | | | | | TDD |
| 6.6.2.3 | Adjacent Channel Leakage power Ratio | Rel-8 | R | UE supporting E-UTRA | FDD |
| | | | | | TDD |
| 6.6.2.4 | Void | | | | |
| 6.6.3.1 | Transmitter Spurious emissions | Rel-8 | R | UE supporting E-UTRA | FDD |

| Clause | Title | Release | | Applicability | Additional Information |
|----------------------|--|---------|-----------|--------------------------|------------------------|
| | | | Condition | Comments | TDD |
| 6.6.3.2 | Spurious emission band UE co- existence | Rel-8 | R | UE supporting E-UTRA | FDD |
| | | | | UE supporting E-UTRA | TDD |
| 6.6.3.3 | Additional spurious emissions | Rel-8 | R | UE supporting E-UTRA | FDD TDD |
| 6.7 | Transmit intermodulation | Rel-8 | R | UE supporting E-UTRA | FDD TDD |
| Receiver | Characteristics | | | | 1.55 |
| 7.3 | Reference sensitivity level | Rel-8 | R | UE supporting E-UTRA | FDD TDD |
| 7.4 | Maximum input level | Rel-8 | R | UE supporting E-UTRA | FDD TDD |
| 7.5 | Adjacent Channel Selectivity (ACS) | Rel-8 | R | UE supporting E-UTRA | FDD |
| 7.6.1 | In-band blocking | Rel-8 | R | UE supporting E-UTRA | TDD FDD |
| | _ | | | 11 0 | TDD |
| 7.6.2 | Out of-band blocking | Rel-8 | R | UE supporting E-UTRA | FDD TDD |
| 7.6.3 | Narrow band blocking | Rel-8 | R | UE supporting E-UTRA | FDD |
| 7.7 | Spurious response | Rel-8 | R | UE supporting E-UTRA | TDD FDD |
| | · | | | | TDD |
| 7.8.1 | Wide band Intermodulation | Rel-8 | R | UE supporting E-UTRA | FDD |
| 7.9 | Spurious emissions | Rel-8 | R | UE supporting E-UTRA | FDD TDD |
| Performa | l nce Requirement | | | | 100 |
| 8.2.1.1.1 | FDD PDSCH Single Antenna Port | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 8.2.1.1.2 | Performance FDD PDSCH Single Antenna Port Performance with 1 PRB in | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 8.2.1.2.1 | presence of MBSFN FDD PDSCH Transmit Diversity 2x2 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 8.2.1.2.2 | FDD PDSCH Transmit Diversity 4x2 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 8.2.1.3.1 | FDD PDSCH Open Loop Spatial Multiplexing 2x2 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 8.2.1.3.2 | FDD PDSCH Open Loop Spatial Multiplexing 4x2 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 8.2.1.4.1 | FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 8.2.1.4.2 | FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 8.2.2.1 | Void | | | | |
| 8.2.2.1.1 | TDD PDSCH Single Antenna Port Performance | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.2.2.1.2 | TDD PDSCH Single Antenna Port Performance with 1PRB in the presence of MBSFN | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.2.2.2 | Void | | | | 1 |
| 8.2.2.2.1 | TDD PDSCH Transmit Diversity 2x2 | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.2.2.2.2 | TDD PDSCH Transmit Diversity 4x2 | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.2.2.3 | Void | | | | |
| 8.2.2.3.1 | TDD PDSCH Open Loop Spatial Multiplexing 2x2 | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.2.2.3.2 | TDD PDSCH Open Loop Spatial Multiplexing 4x2 | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.2.2.4 8.2.2.4.1 | Void TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2 | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.2.2.4.2 | TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2 | Rel-8 | C02 | UE supporting E-UTRA TDD | |

| Clause | Title | Release | | Applicability | Additional Information |
|----------------------|--|---------|-----------|----------------------------|------------------------|
| | | | Condition | Comments | |
| 8.3.2.1 | TDD PDSCH Performance (UE- Specific Reference Symbols) | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.3 8.4.1.1 | Void FDD PCFICH/PDCCH Single- | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| | antenna Port Performance | 11010 | 001 | or supporting E officer DB | |
| 8.4.1.2 | Void | D 10 | 004 | | |
| 8.4.1.2.1 | FDD PCFICH/PDCCH Transmit Diversity 2x2 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 8.4.1.2.2 | FDD PCFICH/PDCCH Transmit Diversity 4x2 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 8.4.2.1 | TDD PCFICH/PDCCH Single- antenna Port Performance | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.4.2.2 | Void | | | | |
| 8.4.2.2.1 | TDD PCFICH/PDCCH Transmit Diversity 2x2 | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.4.2.2.2 | TDD PCFICH/PDCCH Transmit Diversity 4x2 | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.5.1.1 | FDD PHICH Single-antenna Port Performance | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 8.5.1.2 8.5.1.2.1 | Void FDD PHICH Transmit Diversity | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 0.0.1.2.1 | 2x2 | rtei-8 | COT | OE Supporting E-UTKA FDD | |
| 8.5.1.2.2 | FDD PHICH Transmit Diversity 4x2 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 8.5.2.1 | TDD PHICH Single-antenna Port | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 0.5.0.0 | Performance | | | | |
| 8.5.2.2 8.5.2.2.1 | Void TDD PHICH Transmit Diversity | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.5.2.2.2 | TDD PHICH Transmit Diversity | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 8.7.1.1 | FDD sustained data rate | Rel-9 | C01 | UE supporting E-UTRA FDD | |
| 8.7.2.1 | TDD sustained data rate | Rel-9 | C02 | UE supporting E-UTRA TDD | |
| Reporting | performance of Channel State Information | | | | |
| 9.2.1.1 | FDD CQI Reporting under AWGN | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.2.1.2 | conditions – PUCCH 1-0 TDD CQI Reporting under AWGN conditions – PUCCH 1-0 | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.2.2.1 | FDD CQI Reporting under AWGN conditions – PUCCH 1-1 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.2.2.2 | TDD CQI Reporting under AWGN conditions – PUCCH 1-1 | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.3.1.1.1 | FDD CQI Reporting under fading conditions – PUSCH 3-0 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.3.1.1.2 | TDD CQI Reporting under fading conditions – PUSCH 3-0 | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.3.2.1.1 | FDD CQI Reporting under fading conditions – PUCCH 1-0 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.3.2.1.2 | TDD CQI Reporting under fading conditions – PUCCH 1-0 | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.3.3.1.1 | FDD CQI Reporting under fading conditions and frequency-selective interference – PUSCH 3-0 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.3.3.1.2 | TDD CQI Reporting under fading conditions and frequency-selective interference – PUSCH 3-0 | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.4.1.1.1 | FDD PMI Reporting – PUSCH 3- 1 (Single PMI) | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.4.1.1.2 | TDD PMI Reporting – PUSCH 3- 1 (Single PMI) | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.4.2.1.1 | FDD PMI Reporting – PUSCH 1- 2 (Multiple PMI) | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.4.2.1.2 | TDD PMI Reporting – PUSCH 1- 2 (Multiple PMI) | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.5.1.1 | FDD RI Reporting-PUCCH 1-1 | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.5.1.2 | TDD RI Reporting-PUCCH 1-1 | Rel-8 | C02 | UE supporting E-UTRA TDD | |

Table 4.1-1a: Applicability of RF conformance test cases Conditions

| C01 | IF A.4.1-1/1 THEN R ELSE N/A |
|-----|------------------------------|
| C02 | IF A.4.1-1/2 THEN R ELSE N/A |

4.2 RRM conformance test cases

Table 4.2-1: Applicability of RRM conformance test cases, ref. TS 36.521-3 [2]

| Clause | Title | Release | | Applicability | Additional Information |
|---------|---|---------|-----------|--|------------------------|
| | | | Condition | Comments | |
| | RRC_IDLE State Mobility | | | | _ |
| 4.2.1 | E-UTRAN FDD - FDD cell re-selection intra frequency case | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 4.2.2 | E-UTRAN TDD - TDD cell re-selection intra frequency case | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 4.2.3 | E-UTRAN FDD - FDD cell re-selection inter frequency case | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 4.2.4 | E-UTRAN FDD - TDD cell re-selection inter frequency case | Rel-8 | C03 | UE supporting E-UTRA FDD and E-UTRA TDD | |
| 4.2.5 | E-UTRAN TDD - FDD cell re-selection inter frequency case | Rel-8 | C03 | UE supporting E-UTRA FDD and E-UTRA TDD | |
| 4.2.6 | E-UTRAN TDD - TDD cell re-selection inter frequency case | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 4.3.1.1 | E-UTRA FDD - UTRAN FDD cell re- selection | Rel-8 | C04 | UE supporting E-UTRA FDD and UTRA FDD | |
| 4.3.1.2 | E-UTRA FDD - UTRAN FDD cell re- selection: UTRA FDD is of lower priority | Rel-8 | C04 | UE supporting E-UTRA FDD and UTRA FDD | |
| 4.3.1.3 | E-UTRAN FDD - UTRAN FDD cell re- selection in fading propagation conditions: UTRA FDD is of lower priority | Rel-8 | C04 | UE supporting E-UTRA FDD and UTRA FDD | |
| 4.3.2 | E-UTRAN FDD - UTRAN TDD cell re- selection | Rel-8 | C06 | UE supporting E-UTRA FDD and UTRA TDD | |
| 4.3.3 | E-UTRAN TDD - UTRAN FDD cell re- selection | Rel-8 | C07 | UE supporting E-UTRA TDD and UTRA FDD | |
| 4.3.4.1 | E-UTRA TDD - UTRAN TDD cell re- selection | Rel-8 | C05 | UE supporting E-UTRA TDD and UTRA TDD | |
| 4.3.4.2 | E-UTRAN TDD - UTRAN TDD cell re- selection: UTRA is of lower priority | Rel-8 | C05 | UE supporting E-UTRA TDD and UTRA TDD | |
| 4.4.1 | E-UTRAN FDD - GSM cell re-selection | Rel-8 | C08 | UE supporting E-UTRA FDD and GSM | |
| 4.4.2 | E-UTRAN TDD - GSM cell re-selection | Rel-8 | C09 | UE supporting E-UTRA TDD and GSM | |
| 4.5.1.1 | E-UTRAN FDD - HRPD Cell re- selection: HRPD is of lower priority | Rel-8 | C10 | UE supporting E-UTRA FDD and cdma2000 HRPD | |
| 4.6.1.1 | E-UTRAN FDD - cdma2000 1xRTT Cell re-selection: cdma2000 1x is of lower priority | Rel-8 | C11 | UE supporting E-UTRA FDD and cdma2000 1xRTT | |
| | RRC_CONNECTED State Mobility | | | | |
| 5.1.1 | E-UTRAN FDD - FDD Handover intra frequency case | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 5.1.2 | E-UTRAN TDD - TDD Handover intra frequency case | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 5.1.3 | E-UTRAN FDD - FDD Handover inter frequency case | Rel-8 | C01a | UE supporting E-UTRA FDD and Feature Group Indicator 13 and Feature Group Indicator 25 | |
| 5.1.4 | E-UTRAN TDD - TDD Handover inter frequency case | Rel-8 | C02a | UE supporting E-UTRA TDD and Feature Group Indicator 13 and Feature Group Indicator 25 | |
| 5.1.5 | E-UTRAN FDD - FDD inter frequency handover: unknown target cell | Rel-8 | C01a | UE supporting E-UTRA FDD and Feature Group Indicator 13 and Feature Group Indicator 25 | |
| 5.1.6 | E-UTRAN TDD-TDD inter frequency handover: unknown target cell | Rel-8 | C02a | UE supporting E-UTRA TDD and Feature Group Indicator 13 and Feature Group Indicator 25 | |
| 5.2.1 | E-UTRAN FDD - UTRAN FDD handover | Rel-8 | C04a | UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicator 8 and Feature Group Indicator 22 | |
| 5.2.2 | E-UTRAN TDD - UTRAN FDD handover | Rel-8 | C07a | UE supporting E-UTRA TDD and UTRA FDD and Feature Group Indicator 8 and Feature Group Indicator 22 | |

| Clause | Title | Release | | Applicability | Additional Information |
|------------|--|----------|-----------|---|------------------------|
| | | | Condition | Comments | |
| 5.2.3 | E-UTRAN FDD - GSM handover | Rel-8 | C08a | UE supporting E-UTRA FDD and GSM and Feature Group Indicator 9 and Feature Group Indicator 23 | |
| 5.2.4 | E-UTRAN TDD - UTRAN TDD handover | Rel-8 | C05a | UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicator 8 and Feature Group Indicator 22 | |
| 5.2.5 | E-UTRAN FDD - UTRAN TDD handover | Rel-8 | C06a | UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicator 8 and Feature Group Indicator 22 | |
| 5.2.7 | E-UTRAN FDD - UTRAN FDD handover: unknown target cell | Rel-8 | C04a | UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicator 8 and Feature Group Indicator 22 | |
| 5.2.8 | E-UTRAN FDD - GSM handover: unknown target cell | Rel-8 | C08a | UE supporting E-UTRA FDD and GSM and Feature Group Indicator 9 and Feature Group Indicator 23 | |
| 5.2.9 | E-UTRAN TDD - GSM handover: unknown target cell | Rel-8 | C09b | UE supporting E-UTRA TDD and GSM and Feature Group Indicator 9 and Feature Group Indicator 23 | |
| 5.2.10 | E-UTRAN TDD - UTRAN TDD handover: unknown target cell | Rel-8 | C05a | UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicator 8 and Feature Group Indicator 22 | |
| 5.3.1 | E-UTRAN FDD - HRPD Handover | Rel-8 | C10a | UE supporting E-UTRA FDD and cdma2000 HRPD and Feature Group Indicator 12 and Feature Group Indicator 26 | |
| 5.3.2 | E-UTRAN FDD - cdma2000 1xRTT handover | Rel-8 | C11a | UE supporting E-UTRA FDD and cdma2000 1xRTT and Feature Group Indicator 11 and Feature Group Indicator 24 | |
| 5.3.3 | E-UTRAN FDD - HRPD handover: unknown target cell | Rel-8 | C10a | UE supporting E-UTRA FDD and cdma2000 HRPD and Feature Group Indicator 12 and Feature Group Indicator 26 | |
| 5.3.4 | E-UTRAN FDD - cdma2000 1xRTT handover: unknown target cell | Rel-8 | C11a | UE supporting E-UTRA FDD and cdma2000 1xRTT and Feature Group Indicator 11 and Feature Group Indicator 24 | |
| RRC Conn | ection Mobility Control | | | · · | |
| 6.1.1 | E-UTRAN FDD Intra-frequency RRC Re-establishment | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 6.1.2 | E-UTRAN FDD Inter-frequency RRC Re-establishment | Rel-8 | C01b | UE supporting E-UTRA FDD and Feature Group Indicator 25 | |
| 6.1.3 | E-UTRAN TDD Intra-frequency RRC Re-establishment | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 6.1.4 | E-UTRAN TDD Inter-frequency RRC Re-establishment | Rel-8 | C02b | UE supporting E-UTRA TDD and Feature Group Indicator 25 | |
| 6.2.1 | E-UTRAN FDD - Contention Based Random Access Test | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 6.2.2 | E-UTRAN FDD - Non-Contention Based Random Access Test | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 6.2.3 | E-UTRAN TDD - Contention Based Random Access Test | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 6.2.4 | E-UTRAN TDD - Non-Contention Based Random Access Test | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| Timing and | Signalling Characteristics | <u> </u> | | | |
| 7.1.1 | E-UTRAN FDD - UE Transmit Timing Accuracy | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 7.1.2 | E-UTRAN TDD - UE Transmit Timing Accuracy | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 7.2.1 | E-UTRAN FDD - UE Timing Advance Adjustment Accuracy | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 7.2.2 | E-UTRAN TDD - UE Timing Advance Adjustment Accuracy | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 7.3.1 | E-UTRAN FDD Radio Link Monitoring Test for Out-of-Sync | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 7.3.2 | E-UTRAN FDD Radio Link Monitoring Test for In-Sync | Rel-8 | C01 | UE supporting E-UTRA FDD | |

| Additional Information |
|------------------------|
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| A FDD and re Group |
| A FDD and re Group |
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| A TDD and re Group |
| A TDD and re Group |
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| Clause | Title | Release | Applicability | | Additional Information |
|----------|---|---------|---------------|--|------------------------|
| | | | Condition | Comments | |
| 8.7.2 | E-UTRAN TDD - UTRAN TDD cell search when DRX is used under fading propagation conditions | Rel-8 | C05b | UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicator 22 | |
| 8.7.3 | E-UTRAN TDD - UTRAN TDD SON ANR cell search reporting under AWGN propagation conditions | Rel-8 | C05b | UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicator 22 | |
| 8.8.1 | E-UTRAN FDD-GSM event triggered reporting in AWGN | Rel-8 | C08b | UE supporting E-UTRA FDD and GSM and Feature Group Indicator 23 | |
| 8.8.2 | E-UTRAN FDD - GSM event triggered reporting when DRX is used in AWGN | Rel-8 | C08b | UE supporting E-UTRA FDD and GSM and Feature Group Indicator 23 | |
| 8.9.1 | E-UTRAN FDD-UTRAN TDD event triggered reporting in fading propagation conditions | Rel-8 | C06b | UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicator 22 | |
| 8.10.1 | E-UTRAN TDD-GSM event triggered reporting in AWGN | Rel-8 | C09a | UE supporting E-UTRA TDD and GSM and Feature Group Indicator 23 | |
| 8.10.2 | E-UTRAN TDD - GSM event triggered reporting when DRX is used in AWGN | Rel-8 | C09a | UE supporting E-UTRA TDD and GSM and Feature Group Indicator 23 | |
| 8.11.2 | E-UTRAN TDD - E-UTRAN TDD and E-UTRAN TDD Inter-frequency event triggered reporting under fading propagation conditions | Rel-8 | C07b | UE supporting E-UTRA TDD and Feature Group Indicator 22 | |
| 8.11.4 | InterRAT E-UTRA TDD to E-UTRA TDD and UTRA TDD cell search | Rel-8 | C05 | UE supporting E-UTRA TDD and UTRA TDD | |
| 8.11.5 | Combined E-UTRAN FDD - E-UTRA FDD and GSM cell search; E-UTRA cells in fading; GSM cell in static propagation conditions | Rel-8 | C08c | UE supporting E-UTRA FDD and GSM and Feature Group Indicator 22 | |
| 8.11.6 | Combined E-UTRAN TDD - E-UTRA TDD and GSM cell search; E-UTRA cells in fading; GSM cell in static propagation conditions | Rel-8 | C09c | UE supporting E-UTRA TDD and GSM and Feature Group Indicator 22 | |
| Measurem | ent Performance Requirements | | | | |
| 9.1.1.1 | FDD Intra Frequency Absolute RSRP Accuracy | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.1.1.2 | FDD Intra Frequency Relative Accuracy of RSRP | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.1.2.1 | TDD Intra Frequency Absolute RSRP Accuracy | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.1.2.2 | TDD Intra Frequency Relative Accuracy of RSRP | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.1.3.1 | FDD - FDD Inter Frequency Absolute RSRP Accuracy | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.1.3.2 | FDD - FDD Inter Frequency Relative Accuracy of RSRP | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.1.4.1 | TDD - TDD Inter Frequency Absolute RSRP Accuracy | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.1.4.2 | TDD - TDD Inter Frequency Relative Accuracy of RSRP | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.2.1.1 | FDD Intra Frequency Absolute RSRQ Accuracy | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.2.2.1 | TDD Intra Frequency Absolute RSRQ Accuracy | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.2.3.1 | FDD - FDD Inter Frequency Absolute RSRQ Accuracy | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.2.3.2 | FDD - FDD Inter Frequency Relative Accuracy of RSRQ | Rel-8 | C01 | UE supporting E-UTRA FDD | |
| 9.2.4.1 | TDD - TDD Inter Frequency Absolute RSRQ Accuracy | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.2.4.2 | TDD -TDD Inter Frequency Relative Accuracy of RSRQ | Rel-8 | C02 | UE supporting E-UTRA TDD | |
| 9.3.1 | GSM RSSI absolute accuracy for E- UTRAN FDD | Rel-8 | C08 | UE supporting E-UTRA FDD and GSM | |
| 9.4.1 | E-UTRAN FDD - UTRA FDD CPICH Ec/No absolute accuracy | Rel-8 | C06 | UE supporting E-UTRA FDD and UTRA TDD | |
| 9.3.2 | E-UTRAN TDD - UTRA FDD CPICH RSCP absolute accuracy | Rel-9 | C07 | UE supporting E-UTRA TDD and UTRA FDD | |

| Clause | Title | Release | | Applicability | |
|--------|---|---------|-----------|---------------------------------------|--|
| | | | Condition | Comments | |
| 9.4.2 | E-UTRAN TDD - UTRA FDD CPICH Ec/No absolute accuracy | Rel-9 | C07 | UE supporting E-UTRA TDD and UTRA FDD | |

Table 4.2-1a: Applicability of RRM conformance test cases Conditions

| C01 IF A.4.1-1/1 THEN R ELSE N/A |
|---|
| C01a IF (A.4.1-1/1 AND A.4.4-1/13 AND A.4.4-1/25) THEN R ELSE N/A |
| C01b IF (A.4.1-1/1 AND A.4.4-1/25) THEN R ELSE N/A |
| C02 IF A.4.1-1/2 THEN R ELSE N/A |
| C02a IF (A.4.1-1/2 AND A.4.4-1/13 AND A.4.4-1/25) THEN R ELSE N/A |
| C02b IF (A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A |
| C03 IF (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A |
| C04 IF (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A |
| C04a IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A |
| C04b IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A |
| C05 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A |
| C05a IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A |
| C05b IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/25) THEN R ELSE N/A |
| C06 IF (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A |
| C06a IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/11 AND A.4.4-1/22) THEN R ELSE N/A |
| C06b IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/22) THEN R ELSE N/A |
| C07 IF (A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A |
| C07a IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A |
| C07b IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A |
| C08 IF (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A |
| C08a IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A |
| C08b IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A |
| C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A |
| C09 IF (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A |
| C09a IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A |
| C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A |
| C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A |
| C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A |
| C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A |
| C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A |
| C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A |

Annex A (normative): ICS proforma for E-UTRA User Equipment

Notwithstanding the provisions of the copyright related to the text of the present document, The Organizational Partners of 3GPP grant that users of the present document may freely reproduce the ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed ICS.

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 [4].

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.

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.

EXAMPLE 1: A.4.1-1/2 is the reference to the answer of item 2 in table A.4.1-1.

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.

| | Date of the statement |
|--------------------|---|
| A.2.2 UEUT name | User Equipment Under Test (UEUT) identification |
| Hardware co | |
| | figuration: |
| | |
| | |

| A.2.3 | Product supplier |
|---------------|------------------|
| Name: | |
| | |
| Address: | |
| | |
| | |
| | |
| Telephone nu | ımber: |
| | |
| Facsimile nu | mber: |
| | |
| E-mail addre | SS: |
| Additional in | formation |
| Additional in | iormation. |
| | |
| | |
| A O 4 | |
| A.2.4 | Client |
| Name: | |
| A 11 | |
| Address: | |
| | |
| | |
| Telephone nu | ımber: |
| | |
| Facsimile nu | mber: |
| | |
| E-mail addre | ss: |

| 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

Editor's Note: This clause is not completed

A.4.1 UE Implementation Types

Table A.4.1-1: UE Radio Technologies

| Item | UE Radio Technologies | Ref. | Release | Comments |
|------|-----------------------|-----------|---------|----------|
| 1 | E-UTRA FDD | 36.101 | Rel-8 | |
| 2 | E-UTRA TDD | 36.101 | Rel-8 | |
| 3 | UTRA FDD | 25.101 | Rel-8 | |
| 4 | UTRA TDD | 25.102 | Rel-8 | |
| 5 | GSM | 45.005 | Rel-8 | |
| 6 | cdma2000 HRPD | C.S0024-A | Rel-8 | |
| 7 | cdma2000 1xRTT | C.S0002-A | Rel-8 | |

A.4.2 UE Service Capabilities

Table A.4.2-1: UE Radio Technologies

| Item | UE Radio Technologies | Ref. | Release | Comments |
|------|-----------------------|------|---------|----------|
| 1 | FFS | | | |

A.4.3 Baseline Implementation Capabilities

Table A.4.3-1: Supported protocols

| Item | Supported protocols | Ref. | Release | Comments |
|------|----------------------------------|-----------|---------|----------|
| 1 | EPS Mobility Management | 24.301, 5 | Rel-8 | |
| 2 | EPS Session Management | 24.301, 6 | Rel-8 | |
| 3 | GPRS Mobility Management | 23.060 | R99 | |
| 4 | Radio Resource Control | 36.331 | Rel-8 | |
| 5 | Packet Data Convergence Protocol | 36.323 | Rel-8 | |
| 6 | Radio Link Control | 36.322 | Rel-8 | |
| 7 | Medium Access Control | 36.321 | Rel-8 | |
| 8 | Physical Layer | 36.201, | Rel-8 | |
| | | 36.302 | | |

Table A.4.3-2: Special Conformance Testing Functions

| Item | Special Conformance Testing Functions | Ref. | Release | Comments |
|------|---|--------|---------|----------|
| 1 | UE test loop | 36.509 | Rel-8 | |
| 2 | Max UE test loop UL RLC SDU size 65535 bits | 36.509 | Rel-8 | |

Table A.4.3-3: RF Baseline Implementation Capabilities

| Item | RF Baseline Implementation Capabilities | Ref. | Release | Comments | | |
|-------|--|-------------|---------|-------------|--|--|
| 1 | Frequency band: 1920-1980, 2110-2170 MHz | 36.101, 5.5 | Rel-8 | FDD Band 1 | | |
| 2 | Frequency band: 1850-1910, 1930-1990 MHz | 36.101, 5.5 | Rel-8 | FDD Band 2 | | |
| 3 | Frequency band: 1710-1785, 1805-1880 MHz | 36.101, 5.5 | Rel-8 | FDD Band 3 | | |
| 4 | Frequency band: 1710-1755, 2110-2155 MHz | 36.101, 5.5 | Rel-8 | FDD Band 4 | | |
| 5 | Frequency band: 824-849, 869-894 MHz | 36.101, 5.5 | Rel-8 | FDD Band 5 | | |
| 6 | Frequency band: 830-840, 875-885 MHz | 36.101, 5.5 | Rel-8 | FDD Band 6 | | |
| 7 | Frequency band: 2500-2570, 2620-2690 MHz | 36.101, 5.5 | Rel-8 | FDD Band 7 | | |
| 8 | Frequency band: 880-915, 925-960 MHz | 36.101, 5.5 | Rel-8 | FDD Band 8 | | |
| 9 | Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz | 36.101, 5.5 | Rel-8 | FDD Band 9 | | |
| 10 | Frequency band: 1710-1770, 2110-2170 MHz | 36.101, 5.5 | Rel-8 | FDD Band 10 | | |
| 11 | Frequency band: 1427.9-1447.9, 1475.9-1495.9 MHz | 36.101, 5.5 | Rel-8 | FDD Band 11 | | |
| 12 | Frequency band: 698-716, 728-746 MHz | 36.101, 5.5 | Rel-8 | FDD Band 12 | | |
| 13 | Frequency band: 777-787, 746-756 MHz | 36.101, 5.5 | Rel-8 | FDD Band 13 | | |
| 14 | Frequency band: 788-798, 758-768 MHz | 36.101, 5.5 | Rel-8 | FDD Band 14 | | |
| 15 | Reserved | 36.101, 5.5 | Rel-8 | FDD Band 15 | | |
| 16 | Reserved | 36.101, 5.5 | Rel-8 | FDD Band16 | | |
| 17 | Frequency band: 704-716, 734-746 MHz | 36.101, 5.5 | Rel-8 | FDD Band 17 | | |
| 18 | Frequency band: 815-830, 860-875 MHz | 36.101, 5.5 | Rel-9 | FDD Band 18 | | |
| 19 | Frequency band: 830-845, 875-890 MHz | 36.101, 5.5 | Rel-9 | FDD Band 19 | | |
| | | | | | | |
| 20 | Frequency band: 832-862, 791-821MHz | 36.101, 5.5 | Rel-9 | FDD Band 20 | | |
| 21 | Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz | 36.101, 5.5 | Rel-9 | FDD band 21 | | |
| | | | | | | |
| 33 | Frequency band: 1900-1920, 1900-1920 MHz | 36.101, 5.5 | Rel-8 | TDD Band 33 | | |
| 34 | Frequency band: 2010-2025, 2010-2025 MHz | 36.101, 5.5 | Rel-8 | TDD Band 34 | | |
| 35 | Frequency band: 1850-1910, 1850-1910 MHz | 36.101, 5.5 | Rel-8 | TDD Band 35 | | |
| 36 | Frequency band: 1930-1990, 1930-1990 MHz | 36.101, 5.5 | Rel-8 | TDD Band 36 | | |
| 37 | Frequency band: 1910-1930, 1910-1930 MHz | 36.101, 5.5 | Rel-8 | TDD Band 37 | | |
| 38 | Frequency band: 2570-2620, 2570-2620 MHz | 36.101, 5.5 | Rel-8 | TDD Band 38 | | |
| 39 | Frequency band: 1880-1920, 1880-1920 MHz | 36.101, 5.5 | Rel-8 | TDD Band 39 | | |
| 40 | Frequency band: 2300-2400, 2300-2400 MHz | 36.101, 5.5 | Rel-8 | TDD Band 40 | | |
| 41 | Frequency band: 2496-2690, 2496-2690 MHz | 36.101,5.5 | Rel-10 | TDD Band 41 | | |
| Note: | | | | | | |

Note: The values indicated in column "Release" are to be understood as the specifications release version in which a band was introduced and not as a mandate that a UE conforming to particular release shall support a particular band. For further guidance to release independent bands see TS 36.307 [16]

Table A.4.3-4: PUSCH physical layer Categories

| Item | PUSCH physical layer categories | Ref. | Release | Comments |
|------|---------------------------------|-------------|---------|-------------------------|
| 1 | Category 1 | 36.306, 4.1 | Rel-8 | |
| 2 | Category 2 | 36.306, 4.1 | Rel-8 | |
| 3 | Category 3 | 36.306, 4.1 | Rel-8 | |
| 4 | Category 4 | 36.306, 4.1 | Rel-8 | |
| 5 | Category 5 | 36.306, 4.1 | Rel-8 | Support for 64QAM in UL |

Table A.4.3-5: PDSCH physical layer Categories

| Item | PDSCH physical layer categories | Ref. | Release | Comments |
|------|---------------------------------|-------------|---------|----------|
| 1 | Category 1 | 36.306, 4.1 | Rel-8 | |
| 2 | Category 2 | 36.306, 4.1 | Rel-8 | |
| 3 | Category 3 | 36.306, 4.1 | Rel-8 | |
| 4 | Category 4 | 36.306, 4.1 | Rel-8 | |
| 5 | Category 5 | 36.306, 4.1 | Rel-8 | |

Table A.4.3-6: Supported Mixed MBSFN-unicast capabilities

| Item | Supported Mixed MBSFN-unicast capabilities | Ref. | Release | Comments |
|------|--|-------------|---------|-----------------------------|
| 1 | Mixed MBSFN-unicast | 36.211, 6.5 | Rel-8 | Support for MBSFN |
| | | | | subframes: 1, 2, 3, 6, 7, 8 |

A.4.4 Feature group indicators

Table A.4.4-1: Feature group indicators

| Item | Additional information | Notes | Ref. | Release | Mnemonic | Comments |
|------|--|-------|----------------------|---------|----------|---|
| 1 | Support of - Intra-subframe frequency hopping for PUSCH scheduled by UL grant - DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments) - Multi-user MIMO for PDSCH - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI without PMI - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI | | 36.331, Annex B.1 | Rel-8 | | Corresponding to the Index of Indicator, the leftmost binary bit 1 Set to true if supporting all functionalities in the feature group |
| 2 | Support of - Simultaneous CQI and ACK/NACK on PUCCH, i.e. PUCCH format 2a and 2b - Absolute TPC command for PUSCH - Resource allocation type 1 for PDSCH - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 – UE selected subband CQI without PMI - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 – UE selected subband CQI with single PMI | | 36.331, Annex B.1 | Rel-8 | | Corresponding to the Index of Indicator, the leftmost binary bit 2 Set to true if supporting all functionalities in the feature group |

| 3 | Support of - Semi-persistent scheduling - TTI bundling - 5bit RLC UM SN - 7bit PDCP SN | set to 1 if the UE has set bit number 7 to 1. | 36.331, Annex B.1 | | pc_FeatrGrp_3 | Corresponding to the Index of Indicator, the leftmost binary bit 3 Set to true if supporting all functionalities in the feature group |
|---|--|---|----------------------|-------|---------------|---|
| 4 | Support of - Short DRX cycle | | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_4 | Corresponding to the Index of Indicator, the leftmost binary bit 4 Set to true if supporting all functionalities in the feature group |
| 5 | Support of - Long DRX cycle - DRX command MAC control element | | 36.331, Annex B.1 | | pc_FeatrGrp_5 | Corresponding to the Index of Indicator, the leftmost binary bit 5 Set to true if supporting all functionalities in the feature group |
| 6 | Support of - Prioritized bit rate | | 36.331, Annex B.1 | | pc_FeatrGrp_6 | Corresponding to the Index of Indicator, the leftmost binary bit 6 Set to true if supporting all functionalities in the feature group |
| 7 | Support of - RLC UM | | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_7 | Corresponding to the Index of Indicator, the leftmost binary bit 7 Set to true if supporting all functionalities in the feature group |
| 8 | Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH PS handover | | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_8 | Corresponding to the Index of Indicator, the leftmost binary bit 8 Set to true if supporting all functionalities in the feature group |
| 9 | Support of - EUTRA RRC_CONNECTED to GERAN GSM_Dedicated handover | - related to SR-VCC - can only be set to 1 if the UE has set bit number 23 to 1 | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_9 | Corresponding to the Index of Indicator, the leftmost binary bit 9 Set to true if supporting all functionalities in the feature group |

| 10 | Support of - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order with NACC (Network Assisted Cell Change) | | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_10 | Corresponding to the Index of Indicator, the leftmost binary bit 10 Set to true if supporting all functionalities in the feature group |
|----|---|--|----------------------|-------|----------------|--|
| 11 | Support of - EUTRA RRC_CONNECTED to CDMA2000 1xRTT CS Active handover | - can only be set to 1 if the UE has sets bit number 24 to 1 | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_11 | Corresponding to the Index of Indicator, the leftmost binary bit 11 Set to true if supporting all functionalities in the feature group |
| 12 | Support of - EUTRA RRC_CONNECTED to CDMA2000 HRPD Active handover | - can only be set to 1 if the UE has set bit number 26 to 1 | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_12 | Corresponding to the Index of Indicator, the leftmost binary bit 12 Set to true if supporting all functionalities in the feature group |
| 13 | Support of - Inter-frequency handover | - can only be set to 1 if the UE has set bit number 25 to 1 | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_13 | Corresponding to the Index of Indicator, the leftmost binary bit 13 Set to true if supporting all functionalities in the feature group |
| 14 | Support of - Measurement reporting event: Event A4 – Neighbour > threshold - Measurement reporting event: Event A5 – Serving < threshold1 & Neighbour > threshold2 | | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_14 | Corresponding to the Index of Indicator, the leftmost binary bit 14 Set to true if supporting all functionalities in the feature group |
| 15 | Support of - Measurement reporting event: Event B1 – Neighbour > threshold | - can only be set to 1 if the UE has set at least one of the bit number 22, 23, 24 or 26 to 1. | 36.331, Annex B.1 | | pc_FeatrGrp_15 | Corresponding to the Index of Indicator, the leftmost binary bit 15 Set to true if supporting all functionalities in the feature group |
| 16 | Support of - Periodical measurement reporting for non-ANR related measurements | | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_16 | Corresponding to the Index of Indicator, the leftmost binary bit 16 Set to true if supporting all functionalities in the feature group |

| 17 | Support of - Periodical measurement reporting for SON / ANR - ANR related intra-frequency measurement reporting events | set to 1 if the UE has set bit number 5 to 1. | 36.331, Annex B.1 | | pc_FeatrGrp_17 | Corresponding to the Index of Indicator, the leftmost binary bit 17 Set to true if supporting all functionalities in the feature group |
|----|---|---|----------------------|-------|----------------|--|
| 18 | Support of - ANR related inter-frequency measurement reporting events | | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_18 | Corresponding to the Index of Indicator, the leftmost binary bit 18 Set to true if supporting all functionalities in the feature group |
| 19 | Support of - ANR related inter-RAT measurement reporting events | , | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_19 | Corresponding to the Index of Indicator, the leftmost binary bit 19 Set to true if supporting all functionalities in the feature group |
| 20 | If bit number 7 is set to "0": - SRB1 and SRB2 for DCCH + 8x AM DRB If bit number 7 is set to "1": - SRB1 and SRB2 for DCCH + 8x AM DRB - SRB1 and SRB2 for DCCH + 5x AM DRB + 3x UM DRB NOTE: UE which indicate support for a DRB combination also support all subsets of the DRB combination. Therefore, release of DRB(s) never results in an unsupported DRB combination. | - Regardless of what bit number 7 and bit number 20 is set to, UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB - Regardless of what bit number 20 is set to, if bit number 7 is set to "1", UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB + 1x UM DRB | 36.331, Annex B.1 | | pc_FeatrGrp_20 | Corresponding to the Index of Indicator, the leftmost binary bit 20 Set to true if supporting all functionalities in the feature group |
| 21 | Support of - Predefined intra- and inter-subframe frequency hopping for PUSCH with N_sb > 1 | | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_21 | Corresponding to the Index of Indicator, the leftmost binary bit 21 Set to true if supporting all |
| | - Predefined inter-subframe frequency hopping for PUSCH with N_sb > 1 | | | | | functionalities in the feature group |

| 22 | Support of - UTRAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode | 36.331, Annex R B.1 | Rel-8 | pc_FeatrGrp_22 | Corresponding to the Index of Indicator, the leftmost binary bit 22 Set to true if supporting all functionalities in the feature group |
|----|--|------------------------|-------|----------------|--|
| 23 | Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode | 36.331, Annex R | Rel-8 | pc_FeatrGrp_23 | Corresponding to the Index of Indicator, the leftmost binary bit 23 Set to true if supporting all functionalities in the feature group |
| 24 | Support of - 1xRTT measurements, reporting and measurement reporting event B2 in E-UTRA connected mode | 36.331, Annex R | | pc_FeatrGrp_24 | Corresponding to the Index of Indicator, the leftmost binary bit 24 Set to true if supporting all functionalities in the feature group |
| 25 | Support of - Inter-frequency measurements and reporting in E-UTRA connected mode | 36.331, Annex R B.1 | Rel-8 | pc_FeatrGrp_25 | Corresponding to the Index of Indicator, the leftmost binary bit 25 Set to true if supporting all functionalities in the feature group |
| 26 | Support of - HRPD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode | 36.331, Annex R | | pc_FeatrGrp_26 | Corresponding to the Index of Indicator, the leftmost binary bit 26 Set to true if supporting all functionalities in the feature group |
| 27 | Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH CS handover | 36.331, Annex R | | pc_FeatrGrp_27 | Corresponding to the Index of Indicator, the leftmost binary bit 27 Set to true if supporting all functionalities in the feature group |
| 28 | Undefined | 36.331, Annex R B.1 | Rel-8 | pc_FeatrGrp_28 | Corresponding to the Index of Indicator, the leftmost binary bit 28 Set to true if supporting all functionalities in the feature group |

| 29 | Undefined | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_29 | Corresponding to the Index of Indicator, the leftmost binary bit 29 Set to true if supporting all functionalities in the feature group |
|----|-----------|----------------------|-------|----------------|--|
| 30 | Undefined | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_30 | Corresponding to the Index of Indicator, the leftmost binary bit 30 Set to true if supporting all functionalities in the feature group |
| 31 | Undefined | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_31 | Corresponding to the Index of Indicator, the leftmost binary bit 31 Set to true if supporting all functionalities in the feature group |
| 32 | Undefined | 36.331, Annex B.1 | Rel-8 | pc_FeatrGrp_32 | Corresponding to the Index of Indicator, the leftmost binary bit 32 Set to true if supporting all functionalities in the feature group |

Annex B (informative): Change history

| Skeleton proposed for RANS#38 Malaga | Change history | | | | | | | | | |
|--|-----------------|---------------------------------------|-----------|------|-----|---|-------|-------|--|--|
| Updated after RANS#39bis: 0.0.1 0.1 | Date | TSG # | TSG Doc. | CR | Rev | Subject/Comment | Old | New | | |
| - Editorial update and alignment with 36.523-2 T.C included in 36.521-1 and 36.521-3 included | | | | | | | | 0.0.1 | | |
| TC included in 36.521-1 and 36.521-3 included Some Conditions for 17 cs elections introduce Updated after RAN5#40: | 2008-06 | | | | | | 0.0.1 | 0.1.0 | | |
| Some Conditions for TC selections introduce | | | | | | | | | | |
| Updated after RANS#40: | | | | | | | | | | |
| - Editorial update in regard to changing spec names, etc. | | | | 1 | | | | | | |
| etc. | 2008-08 | | | | | | 0.1.1 | 0.2.0 | | |
| FDD and TDD split (R5-083839) -RRM TC numbers aligned with 36.521-3 v030 -RRM TC numbers aligned with 36.521-1 v110 and 36.521-3 v040 -RRM TC numbers aligned with 36.521-1 v110 and 36.521-2 v040 -RRM TC numbers aligned with 36.521-1 v110 and 36.521-3 v040 -Some editorial updates -RRM TC numbers aligned with 36.521-1 v110 and 36.521-3 v040 -Some editorial updates -RRM TC numbers aligned high split is aligned with 36.521-1 v110 and 36.521-3 v040 -Some editorial updates -RRM TC numbers aligned high split is aligned high split is aligned with 36.521-1 v110 and 36.521-2 v040 -Some editorial updates -RRM TC numbers aligned high split is aligned high split is aligned with 36.521-1 v110 and 36.521-2 v040 -Some editorial updates -RRM TC numbers aligned high split is aligned with 36.521-1 value and split is aligned with 36.521-1 value is | | | | | | - Editorial update in regard to changing spec names, | | | | |
| RRM TC numbers aligned with 36.521-3 vo30 | | | | | | | | | | |
| Update after RAN5#40bis: - Table split in different clauses for Conformance and RRM test cases - Extension of applicability tables to include Additional information column - Change of applicability of TCs that apply to any E-UTRA device into "R" - recommended - Updated TCs in accordance to 36.521-1 v110 and 36.521-3 v040 - Some editorial updates Update After RAN5#41 (R5-055360): - Renamed 8.1-1, added new 8.1.2, - Added new TCs to RRM section Measurement Performance Requirements - Added Table A.4.3-2 with reference to test loop functions in 36.509 - Some editorial changes - Normative References updated - Change RRM TC titles to reflect their applicability to FDD only - Approval of version 2.0.0 at RAN#42, then put to version 8.0.0. 2008-01 RAN#44 RP-090448 0001 - Editorial corrections CR to 36.521-2: Applicability changes and additions for RRM test cases - LTE-RF: Applicability changes and additions for RRM test cases - LTE-RF: Applicability changes and additions to RRM test cases - Correction CR to 36.521-2: Applicability changes to introduce additional RRM tests - Res-094070 - RAN#45 R5-094070 - RES-0940710 - RES-0940710 - RES-0940710 - RES-0940710 - RES-094072 - RES-0940730 - RES-0940730 - RES-0940730 - RES-0940730 - RES-0940740 - R | | | | | | | | | | |
| - Table split in different clauses for Conformance and RRM test cases - Extension of applicability tables to include Additional information column - Change of applicability of TCs that apply to any E-UTRA device into "R" - recommended - Updated TCs in accordance to 36.521-1 v110 and 36.521-3 v040 - Some editorial updates - Updated TCs in accordance to 36.521-1 v110 and 36.521-3 v040 - Some editorial updates - Update After RAN5#41 (R5-055360): - Renamed 8.1.1, added new T.12, - Added new TCs to RRM section Measurement Performance Requirements - Added Table A.3-2 with reference to test loop functions in 36.509 - Some editorial changes - Normative References updated - Change RRM TC titles to reflect their applicability to FDD only - Some editorial changes - Normative References updated - Change RRM TC titles to reflect their applicability to PDD only - Some editorial corrections B.0.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 | | | | | | | | | | |
| RRM test cases Extension of applicability tables to include Additional information column - Change of applicability of TCs that apply to any E-UTRA device into 'R' - recommended - Updated TCs in accordance to 36.521-1 v110 and 36.521-3 v040 - Some editorial updates Update After RAN5#41 (R5-055360): - Renamed 8.1.1, added new 8.1.2, - Added new TCs to RRM section Measurement Performance Requirements - Added Table A.4.3-2 with reference to test loop functions in 36.509 - Some editorial changes - Normative References updated - Change RRM TC titles to reflect their applicability to FDD only - Some editorial changes - Normative References updated - Change RRM TC titles to reflect their applicability to FDD only - Some editorial corrections - So.0.0 - So.0.0 - Some editorial corrections - So.0.0 - So.0. | 2008-10 | | | | | | 0.2.0 | 0.3.0 | | |
| Extension of applicability tables to include Additional information column | | | | | | | | | | |
| Information column | | | | | | | | | | |
| - Change of applicability of TCs that apply to any E-UTRA device into "R" - recommended - Updated TCs in accordance to 36.521-1 v110 and 36.521-3 v040 - Some editorial updates 2008-11 2008-11 2008-11 2008-12 2008-13 2008-14 2008-15 2008-15 2008-16 2008-16 2008-16 2008-17 2008-17 2008-18 2008-19 2008-19 2008-19 2008-19 2008-10 2008-1 | | | | | | - Extension of applicability tables to include Additional | | | | |
| UTRA device into "R" - recommended | | | | | | | | | | |
| - Updated TCs in accordance to 36.521-1 v110 and 36.521-3 v040 | | | | | | | | | | |
| 36.521-3 v040 | | | | | | | | | | |
| Some editorial updates | | | | | | | | | | |
| Update After RAN#41 (R5-05360); - Renamed 8.1.1, added new 8.1.2, - Added new TCs to RRM section Measurement Performance Requirements - Added Table A.4.3-2 with reference to test loop functions in 36.509 - Some editorial changes - Normative References updated - Change RRM TC titles to reflect their applicability to FDD only Approval of version 2.0.0 at RAN#42, then put to version 8.0.0. Editorial corrections. 8.0.0 8.0 version 8.0.0. Editorial corrections. 8.0.1 8.1 Cft 13.6521-2: Applicability changes and additions for RRM test cases | | | | | | | | | | |
| - Renamed 8.1.1, added new 8.1.2, - Added new R.1.2, - Added new TCs to RRM section Measurement Performance Requirements - Added Table A.4.3-2 with reference to test loop functions in 36.509 - Some editorial changes - Normative References updated - Change RRM TC titles to reflect their applicability to FDD only - Approval of version 2.0.0 at RAN#42, then put to version 8.0.0. 2008-01 | | | | | | | | | | |
| - Added new TCs to RRM section Measurement Performance Requirements - Added Table A.4.3-2 with reference to test loop functions in 36.509 - Some editorial changes - Normative References updated - Change RRM TC titles to reflect their applicability to FDD only Approval of version 2.0.0 at RAN#42, then put to version 8.0.0. Editorial corrections. 8.0.0 8.0 | 2008-11 | | | | | | 0.3.0 | 2.0.0 | | |
| Performance Requirements | | | | | | | | | | |
| - Added Table A.4.3-2 with reference to test loop functions in 36.509 - Some editorial changes - Normative References updated - Change RRM TC titles to reflect their applicability to FDD only - RAN#42 RP-080970 Approval of version 2.0.0 at RAN#42, then put to version 8.0.0 - Editorial corrections. B.0.0 8.0 - Editorial corrections. B.0.0 8.0 - Editorial corrections. B.0.1 8.1 - CR to 36.521-2: Applicability changes and additions for RRM test cases - Correction CR to 36.521-2: Applicability changes to introduce additional RRM tests - Correction CR to 36.521-2: Applicability changes to introduce additional RRM tests - R5-094710 0005 - R8N#45 R5-094710 0005 - R8submission-Correction CR to 36.521-2: Applicability for Sunday tests - R5-094788 0006 - Update of RRM Conformance test applicability for Sunday tests - R5-094789 0007 - Correction CR to 36.521-2: Applicability changes to introduce additional RRM tests - R5-094789 0007 - Correction CR to 36.521-2: Applicability for Sunday tests - R5-094788 0006 - Update of RRM Conformance test applicability for Sunday tests - R5-094789 0007 - Correction CR to 36.521-2: Applicability changes to update the Demodulation tests - Correction CR to 36.521-2: Applicability changes to update the Demodulation of PDSCH (FDD) tests based on the CR merge results from RANS#44 - R5-095778 0009 - RAN#46 R5-095841 0010 - CR to 36.521-2: Applicability additions for new RRM (FDD) tests based on the CR merge results from RANS#44 - R5-100358 0011 - CR to 36.521-2: Rel-8 Introduction of Applicability for E-UTRAN FDD - FDD Intra Frequency Cell Search with DRX when L3 filtering is used | | | | | | | | | | |
| Functions in 36.509 Some editorial changes Normative References updated Change RRM TC titles to reflect their applicability to FDD only | | | | | | | | | | |
| - Some editorial changes - Normative References updated - Change RRM TC titles to reflect their applicability to FDD only - Change RRM TC titles to reflect their applicability to FDD only - Approval of version 2.0.0 at RAN#42, then put to version 8.0.0 - 2008-01 | | | | | | | | | | |
| - Normative References updated - Change RRM TC titles to reflect their applicability to FDD only - Change RRM TC titles to reflect their applicability to FDD only - Approval of version 2.0.0 at RAN#42, then put to version 8.0.0 RAN#44 RP-090448 0001 Editorial corrections RAN#44 RP-090448 0001 CR to 36.521-2: Applicability changes and additions for RRM test cases - Correction CR to 36.521-2: Applicability changes to introduce additional RRM tests - RE-094710 0005 RAN#45 RE-094768 0006 RAN#45 RE-094768 0007 RAN#45 RE-094768 0007 RAN#45 RE-094768 0007 RAN#45 RE-094768 0008 RAN#45 RE-094768 0006 RAN#45 RE-094768 0008 RAN#46 RE-094768 0008 RAN#47 RE-1004768 0009 RAN#47 RE-1004768 | | | | | | | | | | |
| Change RRM TC titles to reflect their applicability to FDD only | | | | | | | | | | |
| FDD only Approval of version 2.0.0 at RAN#42, then put to version 8.0.0. | | | | | | | | | | |
| Approval of version 2.0.0 at RAN#42, then put to version 8.0.0. | | | | | | | | | | |
| Version 8.0.0. Editorial corrections. 8.0.0 8. | | | | | | | | | | |
| Editorial corrections. 8.0.0 8.0 8.0 2009-05 RAN#44 RP-090448 0001 CR to 36.521-2: Applicability changes and additions for RRM test cases LTE-RF: Applicability for Output Power Dynamics test 8.0.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.4 8.4 8.5 8.5 8.5 8.5 9.4 8.5 9.4 8.5 9.4 8.5 9.4 9.5 9 | 2008-12 | RAN#42 | RP-080970 | | | | 2.0.0 | 8.0.0 | | |
| 2009-05 RAN#44 RP-090448 0001 CR to 36.521-2: Applicability changes and additions for RRM test cases 8.0.1 8.1 2009-05 RAN#44 RP-090448 0002 LTE-RF: Applicability for Output Power Dynamics test 8.0.1 8.1 2009-09 RAN#45 R5-094035 0003 - Correction CR to 36.521-2: Applicability changes to introduce additional RRM tests 8.1.0 8.2 2009-09 RAN#45 R5-094572 0004 - Applicability for Output Power Dynamics test cases 8.1.0 8.2 2009-09 RAN#45 R5-094710 0005 - Resubmission-Correction CR to 36.521-2: Applicability changes to introduce additional RRM tests 8.1.0 8.2 2009-09 RAN#45 R5-094768 0006 - Update of RRM Conformance test applicability for SON 8.1.0 8.2 2009-09 RAN#45 R5-094999 0007 - Correction CR to 36.521-2: Applicability changes to update the Demodulation tests 8.1.0 8.2 2009-12 RAN#46 R5-095519 0008 Correction CR to 36.521-2: Applicability changes to update the Demodulation of PDSCH (FDD) tests based on the CR merge results from RAN5#44 8.2.0 | | | | 1 | | | | | | |
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| with DRX when L3 filtering is used 2010-03 RAN#47 R5-100561 0012 - CR to 36.521-2: Update baseline implementation 8.3.0 8.4 | _0.000 | | 1.00.000 | | | | 0.0.0 | | | |
| 2010-03 RAN#47 R5-100561 0012 - CR to 36.521-2: Update baseline implementation 8.3.0 8.4 | | | | | | | | | | |
| | 2010-03 | RAN#17 | R5-100561 | 0012 | _ | | 830 | 8.4.0 | | |
| I I I I I I I I I I I I I I I I I I I | <u>_</u> 010-03 | · · · · · · · · · · · · · · · · · · · | 100001 | 0012 | | capabilities with extended LTE1500 operating bands | 0.5.0 | 0.7.0 | | |

| 2010-03 | RAN#47 | R5-100872 | 0013 | - | CSI: Following up corrections to tests titles and RI | 8.3.0 | 8.4.0 |
|---------|--------|-----------|------|---|--|-------|-------|
| | | | | | clause structure | | |
| 2010-03 | RAN#47 | - | - | - | Moved to v9.0.0 with no change | 8.4.0 | 9.0.0 |
| 2010-06 | RAN#48 | R5-103147 | 0014 | - | Adding band 20, 800MHZ in EU to TS36.521-2 | 9.0.0 | 9.1.0 |
| 2010-06 | RAN#48 | R5-103757 | 0015 | - | Introduction of feature group indicator in applicability | 9.0.0 | 9.1.0 |
| | | | | | for RRM test cases | | |
| 2010-09 | RAN#49 | R5-104246 | 0017 | - | CR to 36.521-2 on Correction to cell search | 9.1.0 | 9.2.0 |
| 2010-09 | RAN#49 | R5-104264 | 0018 | - | Addition of applicability for new RRM test cases | 9.1.0 | 9.2.0 |
| 2010-09 | RAN#49 | R5-104372 | 0019 | - | Update of Applicability for Demodulation test cases | 9.1.0 | 9.2.0 |
| | | | | | and UE implementation Types for UTRA TDD | | |
| 2010-09 | RAN#49 | R5-104840 | 0020 | - | 36521-2 General update to add-remove TCs | 9.1.0 | 9.2.0 |
| | | | | | applicability correct, TC titles and numbers and | | |
| | | | | | editorials | | |
| 2010-09 | RAN#49 | R5-105056 | 0021 | - | Applicability of a new Rel-9 downlink sustained data | 9.1.0 | 9.2.0 |
| | | | | | rate performance test cases | | |
| 2010-12 | RAN#50 | R5-106118 | 0022 | - | CR to 36.521-2: Update baseline implementation | 9.2.0 | 9.3.0 |
| | | | | | capabilities for EUTRA TDD LTE band 41 | | |

History

| | Document history | | | | | | | |
|--------|------------------|-------------|--|--|--|--|--|--|
| V9.0.0 | April 2010 | Publication | | | | | | |
| V9.1.0 | July 2010 | Publication | | | | | | |
| V9.2.0 | October 2010 | Publication | | | | | | |
| V9.3.0 | January 2011 | Publication | | | | | | |
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