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LTE;

Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.523-2 version 12.8.0 Release 12)



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Foreword

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Foreword

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

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
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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 2 of a multi-part conformance test specification for User Equipment (UE).

3GPP TS 36.523-1 [19]: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".

3GPP TS 36.523-2: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification". (the present document)

3GPP TS 36.523-3 [20]: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Abstract Test Suite (ATS)".

1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation User Equipment (UE), in compliance with the relevant EPS (E-UTRA/EPC) requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [24] and ISO/IEC 9646-7 [25].

The present document also specifies a recommended applicability statement for the test cases included in TS 36.523-1 [19]. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in TS 36.509 [6] and the common test environments are included in 3GPP TS 36.508 [18].

The present document is valid for UE complying with EPS (E-UTRA/EPC) and implemented according to 3GPP release starting from Release 8 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 23.003: "Numbering, Addressing and Identification".
- [3] 3GPP TS 23.122: "Non-Access-Stratum functions related to Mobile Station (MS) in idle mode".
- [4] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3".
- [5] Void
- [6] 3GPP TS 36.509: "Special conformance testing functions for User Equipment ".
- [7] Void
- [8] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [9] Void
- [10] 3GPP TS 36.300: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2".
- [11] 3GPP TS 36.302: "Services provided by the physical layer for E-UTRA".
- [12] 3GPP TS 36.304: "Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE) Procedures in idle mode ".
- [13] 3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE) Radio Access capabilities ".
- [14] 3GPP TS 36.321: "Evolved Universal Terrestrial Radio Access (E-UTRA) Medium Access Control (MAC) protocol specification".

- [15] 3GPP TS 36.322: "Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Link Control (RLC) protocol specification".
- [16] 3GPP TS 36.323: "Evolved Universal Terrestrial Radio Access (E-UTRA) Packet Data Convergence Protocol (PDCP) specification".
- [17] 3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Resource Control (RRC) Protocol Specification".
- [18] 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".
- [19] 3GPP TS 36.523-1: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [20] 3GPP TS 36.523-3: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Abstract Test Suites (ATS)".
- [21] 3GPP TR 24.801: "3GPP System Architecture Evolution; CT WG1 Aspects".
- [22] 3GPP TS 23.401: "3GPP System Architecture Evolution; GPRS enhancements for E-UTRAN access".
- [23] 3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance specification".
- [24] ISO/IEC 9646-1: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts".
- [25] ISO/IEC 9646-7: "Information technology Open systems interconnection Conformance testing methodology and framework Part 7: Implementation Conformance Statements".
- [26] 3GPP2 C.S0024-A-v3.0: "cdma2000 High Rate Packet Data Air Interface Specification".
- [27] 3GPP2 C.S0002-A: "Physical Layer Standard for cdma2000 Spread Spectrum Systems Release A".
- [28] 3GPP TS 24.303: "Mobility management based on Dual-Stack Mobile IPv6; Stage 3".
- [29] IEEE Std 802.11 (1999): "Standard for Information Technology Telecommunications and information exchange between systems - Local and Metropolitan Area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications".
- [30] 3GPP TS 36.307: "Requirements on User Equipments (UEs) Supporting a release-independent frequency band ".
- [33] GSMA PRD IR.92: "IMS Profile for Voice and SMS".
- [34] 3GPP TS 22.101: "Service aspects; Service principles'
- [35] 3GPP TS 24.301: "Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3".
- [36] 3GPP TS 25.306: "UE Radio Access capabilities".
- [37] 3GPP TS 25.331: "Radio Resource Control (RRC); Protocol specification".
- [38] 3GPP TS 23.216: "Super-Charger technical realization; Stage 2".
- [39] 3GPP TS 23.272: "Circuit Switched (CS) fallback in Evolved Packet System (EPS); Stage 2".
- [40] 3GPP TS 44.060: "General Packet Radio Service (GPRS); Mobile Station (MS) Base Station System (BSS) interface; Radio Link Control / Medium Access Control (RLC/MAC) protocol".

- [41] 3GPP TS 26.114: "IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction".
- [42] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
- [43] 3GPP TS 24.173: "IMS Multimedia telephony communication service and supplementary services; Stage 3".
- [44] 3GPP TR 21.904: "User Equipment (UE) capability requirements".
- [45] 3GPP TS 34.229-2: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP);User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification".
- [46] 3GPP TS 36.101: "User Equipment (UE) radio transmission and reception".
- [47] 3GPP TS 24.368: "Non-Access Stratum (NAS) configuration Management Object (MO)".
- [48] 3GPP TS 31.102: "Characteristics of the Universal Subscriber Identity Module (USIM) application".
- [49] 3GPP TS 23.221: "Architectural requirements".
- [50] 3GPP TS 45.008: "GSM/EDGE Radio Access Network; Radio subsystem link control".
- [51] 3GPP TS 23.041: "Technical realization of Cell Broadcast Service (CBS)".
- [52] 3GPP TS 24.334: "Proximity-services (ProSe) User Equipment (UE) to Proximity-services (ProSe) Function Protocol aspects; Stage 3".
- [53] 3GPP TS 24.334: "Proximity-services (ProSe) User Equipment (UE) to Proximity-services (ProSe) Function Protocol aspects; Stage 3".

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 [24] and ISO/IEC 9646-7 [25]
- NOTE: Some terms and abbreviations defined in [24] and [25] 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:

| ENB | Evolved Node B |
|-------|---|
| FFS | For Further Study |
| ICS | Implementation Conformance Statement |
| IXIT | Implementation eXtra Information for Testing |
| PICS | Protocol Implementation Conformance Statement |
| PIXIT | Protocol Implementation eXtra Information for Testing |
| 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 Table 4-1. 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 Table 4-1 have the following meaning:

Clause

The clause column indicates the clause number in TS 36.523-1 [19] 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 36.523-1 [19] that contains the test body.

Release

The release column indicates the earliest release from which the test case is applicable. In some specific cases it may indicate the release(s) for which the TC is **only** applicable.

Note: Some exceptions to this interpretation may be indicated in Notes in column 'Number of TC Executions' e.g. see Note 3 Table 4-1.

Applicability - Condition

The following notations are used for the applicability column:

R recommended - the test case is recommended

| 0 | 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 4-1a.

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.

NOTE: ICS items specified in 3GPP TS 34.123-2 [8] and 3GPP TS 34.229-2 [45] can be referred, to avoid redundant definitions.

Additional Information - Specific IXIT

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

Additional Information - Number of TC Executions

This column contains, wherever applicable, the recommended for certification purposes number of TC executions. It may contain also other information e.g. exceptions to the release applicable to the test. Clarifying notes are listed in Table 4-1b.

Additional Information - Release other RAT

In regard to a particular test case, this column provides information on the release which is used by the simulated network in the other (i.e. non E-UTRA) RAT(s) where applicable. For each applicable RAT the release shall be indicated in the format 'Rel-X RAT'. When multiple RATs are applicable the entries per RAT shall be separated by a comma. When a value for a 3GPP RAT is not provided but the RAT is in the scope of the test case then for this RAT the release indicated in the Release column applies (per default).

EXAMPLES:

Rel-9 UTRA FDD, Rel-8 GERAN or simply as Rel-9 UTRA FDD

(meaning that the UTRA FDD will simulate Rel-9 and the GERAN Rel-8 behaviours)

Rel-9 UTRA TDD

(meaning that the UTRA LCR TDD network will simulate Rel-9 behaviours)

NOTE 2: To meet the validation requirements from certification bodies then there is a need to uniquely reference the FDD and TDD branch 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 AM RLC test case 7.2.3.13 the FDD and TDD branches can be identified by "7.2.3.13 FDD" and "7.2.3.13 TDD".

Table 4-1: Applicability of tests and additional information for testing

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
|----------|---|---------|-------------------|---|---------------------------|---------------|---|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | IDLE MODE | | | | | | | |
| 6.1.1.1 | PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Either TC 6.1.1.1 or TC 6.1.1.1b shall be executed. (Note 4) | |
| | | 5.1.5 | 0.1.10 | | pc_eTDD | | | |
| 6.1.1.1a | PLMN selection / Automatic mode/ between FDD and TDD | Rel-8 | C142 | UEs supporting E-UTRA FDD and E-UTRA TDD | | | | |
| 6.1.1.1b | PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode / Single Frequency operation | Rel-8 | R | UEs supporting E-UTRA. This test is 'cells on single frequency only' equivalent of TC 6.1.1.1 | pc_eFDD | | Either TC 6.1.1.1 or TC 6.1.1.1b shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 6.1.1.2 | PLMN selection of "Other PLMN/access technology combinations" / Automatic mode | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Either TC 6.1.1.2 or TC 6.1.1.2a shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 6.1.1.2a | PLMN selection of "Other PLMN/access technology combinations" / Automatic mode / Single Frequency operation | Rel-8 | R | UEs supporting E-UTRA This test is 'cells on single frequency only ' equivalent of 6.1.1.2 | pc_eFDD | | Either TC 6.1.1.2 or TC 6.1.1.2a shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | (| |
| 6.1.1.3 | Cell reselection of ePLMN in manual mode | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Either TC 6.1.1.3 or TC 6.1.1.3b shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 6.1.1.3a | Cell reselection of ePLMN in manual mode / between FDD and TDD | Rel-9 | C142 | UEs supporting E-UTRA FDD and E-UTRA TDD | | | Note 3 | |
| 6.1.1.3b | Cell reselection of ePLMN in manual mode / Single Frequency operation | Rel-8 | R | TUEs supporting E-UTRA. This test is 'cells on single frequency only' equivalent of 6.1.1.3 | pc_eFDD | | Either TC 6.1.1.3 or TC 6.1.1.3b shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 6.1.1.4 | PLMN selection in shared network environment / Automatic mode | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.1.1.4a | PLMN selection in shared network environment / Automatic mode / Between FDD and TDD | Rel-8 | C142 | UEs supporting E-UTRA FDD and E-UTRA TDD | | | | |
| 6.1.1.6 | PLMN selection of RPLMN, HPLMN/EHPLMN, | Rel-8 | C157 | UEs supporting E-UTRA and user initiated | pc_eFDD | | Either TC 6.1.1.6 or | |

| Clause | TC Title | Release Applicabili ty | | | Additional Information | | | |
|--------------------|---|---------------------------|-----------------------|---|---------------------------|---------------|---|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | UPLMN and OPLMN / Automatic mode / User reselection | | | PLMN reselection in automatic mode | | | TC 6.1.1.6a shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 6.1.1.6a | PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode / User reselection / Single Frequency operation | Rel-8 | C157 | UEs supporting E-UTRA and user initiated PLMN reselection in automatic mode. This test is 'cells on single frequency only' equivalent of 6.1.1.6 | pc_eFDD | | Either TC 6.1.1.6 or TC 6.1.1.6a shall be executed. (Note 4) | |
| 0 4 4 7 | DI MAL este sting / Devis dis generale sting / | D-L40 | 0170 | | pc_eTDD | | | |
| 6.1.1.7 | PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer | Rel-10 | C179 | UEs supporting E-UTRA and MinimumPeriodicSearchTimer | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.1.1.7a | PLMN selection / Periodic reselection / | Rel-10 | C179 | UEs supporting E-UTRA and | pc_eFDD | | Either TC 6.1.1.7 or | |
| | MinimumPeriodicSearchTimer / Single Frequency operation | | | MinimumPeriodicSearchTimer | pc_eTDD | | TC 6.1.1.7a shall be executed. (Note 8) | |
| 6.1.1.8 | PLMN selection of RPLMN or (E)HPLMN / | Rel-8 | C212 | UEs supporting E-UTRA and | pc_eFDD | | · · · · · | |
| | Automatic mode | | | EF_LRPLMSI_Exception | pc_eTDD | | | |
| 6.1.1.9 | PLMN selection of RPLMN or (E)HPLMN / | Rel-8 | C213 | UEs supporting E-UTRA and | pc_eFDD | | | |
| 5.1.1.0 | Manual mode | itter o | 0210 | ManualModeNetworkSelectionException | pc_eTDD | - | | |
| 6.1.2.1 | Void | | | | pc_eroo | | | |
| 5.1.2.1 5.1.2.2 | Cell selection / Q _{rdevmin} | Rel-8 | R | UEs supporting E-UTRA | pc eFDD | | | |
| 5.1.2.2 | Cell Selection / Qrxlevmin | ITE-0 | IX IX | | pc_eTDD | | | |
| 6.1.2.2a | Cell selection / Q _{qualmin} | Rel-9 | R | UEs supporting E-UTRA | pc_eFDD | | Note 3 | |
| 5.1.2.2u | | itter o | | | pc_eTDD | | | |
| 5.1.2.2b | Cell selection / UE Cat 0 not allowed | Rel-12 | C224 | UEs supporting E-UTRA and UE Category 0 | pc_eFDD | | | |
| | | | | | pc_eTDD | | - | |
| 6.1.2.3 | Cell selection / Intra E-UTRAN / Serving cell becomes non-suitable | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.1.2.3a | Cell selection / Intra E-UTRAN / Serving cell becomes non-suitable (Srxlev > 0 and Squal < 0) | Rel-9 | R | UEs supporting E-UTRA | pc_eFDD | | Note 3 | |
| | | | | | pc_eTDD | | | |
| 6.1.2.4 | Cell reselection | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | A (a) | | pc_eTDD | | | |
| 6.1.2.5 | Cell reselection for inter-band operation | Rel-8 | C184 | UEs supporting E-UTRA and more than 1 FDD or TDD E-UTRA band | pc_eFDD | | | |
| | | | - | | pc_eTDD | | | |
| 6.1.2.6 | Cell reselection using Q_{hyst} , Q_{offset} and $T_{reselection}$ | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | <u> </u> | | pc_eTDD | | | |
| 6.1.2.7 | Cell reselection / Equivalent PLMN | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Either TC 6.1.2.7 or TC 6.1.2.7a shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 6.1.2.7a | Cell reselection / Equivalent PLMN / Single Frequency operation | Rel-8 | R | UEs supporting E-UTRA. This test is 'cells on single frequency only ' equivalent of 6.1.2.7 | pc_eFDD | | Either TC 6.1.2.7 or TC 6.1.2.7a shall be executed. | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
|-----------|--|----------|-------------------|---|---------------------------|---------------|---|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | | | (Note 4) | |
| | • • • • • • • | | | | pc_eTDD | | | |
| 6.1.2.8 | Cell reselection using cell status and cell reservations / Access control class 0 to 9 | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Either TC 6.1.2.8 or TC 6.1.2.8a shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 6.1.2.8a | Cell reselection using cell status and cell reservations / Access control class 0 to 9 / Single Frequency operation | Rel-8 | R | UEs supporting E-UTRA. This test is 'cells on single frequency only ' equivalent of 6.1.2.8 | pc_eFDD | | Either TC 6.1.2.8 or TC 6.1.2.8a shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 6.1.2.9 | Cell reselection using cell status and cell reservations / Access control class 11 to15 | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Either TC 6.1.2.9 or TC 6.1.2.9a shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 6.1.2.9a | Cell reselection using cell status and cell reservations / Access control class 11 to15 / Single Frequency operation | Rel-8 | R | UEs supporting E-UTRA. This test is 'cells on single frequency only ' equivalent of 6.1.2.9 | pc_eFDD | | Either TC 6.1.2.9 or TC 6.1.2.9a shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 6.1.2.10 | Cell reselection in shared network environment | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.1.2.11 | Inter-frequency cell reselection | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD pc_eTDD | | | |
| 6.1.2.12 | Cell reselection / Cell-specific reselection parameters provided by the network in a neighbouring cell list | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | . | | | pc_eTDD | | | |
| 6.1.2.13 | Cell re-selection, Sintrasearch, Snonintrasearch | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | 5.1.0 | 5 | | pc_eTDD | | | |
| 6.1.2.14 | Speed-dependent cell reselection | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD pc_eTDD | | | |
| 6.1.2.15 | Inter-frequency cell reselection according to cell | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD pc_eFDD | | | |
| | reselection priority provided by SIBs | | | | pc_eTDD | | | |
| 6.1.2.15a | Inter-frequency cell reselection according to cell reselection priority provided by SIBs / Between FDD and TDD | Rel-9 | C142 | UEs supporting E-UTRA FDD and E-UTRA TDD | рс_етоо | | Note 3 | |
| 6.1.2.15b | Inter-band cell reselection according to cell reselection priority provided by SIBs | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.1.2.16 | Cell reselection / interband operation / Between FDD and TDD | Rel-9 | C142 | UEs supporting E-UTRA FDD and E-UTRA TDD | | | Note 3 | |
| 6.1.2.17 | Cell reselection for Squal to check against SIntraSearchQ and SnonIntraSearchQ | Rel-9 | R | UEs supporting E-UTRA | pc_eFDD | | Note 3 | |
| | | | | | pc_eTDD | | 1 | |

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| 6.1.2.18 | Inter-frequency cell reselection based on common priority information with parameters Thresh _{X, HighQ} , Thresh _{X, LowQ} and Thresh _{Serving, LowQ} | Rel-9 | R | UEs supporting E-UTRA | pc_eFDD | | Note 3 | |
| | | | | | pc_eTDD | | | |
| 6.1.2.19 | Intra-frequency cell reselection / MFBI | Rel-9 | C189F | UEs supporting E-UTRA and MFBI feature indicated by Feature Group Indicator 31 | pc_eFDD | | Note 3 | |
| | | | C189T | | pc_eTDD | | | |
| 6.1.2.20 | Inter-frequency cell reselection / MFBI | Rel-9 | C189F | UEs supporting E-UTRA and MFBI feature indicated by Feature Group Indicator 31 | pc_eFDD | | Note 3 | |
| | | | C189T | | pc_eTDD | | | |
| 6.1.2.21 | Inter-band cell reselection / MFBI | Rel-9 | C189F | UEs supporting E-UTRA and MFBI feature indicated by Feature Group Indicator 31 | pc_eFDD | | Note 3 | |
| | | | C189T | | pc_eTDD | | | |
| 6.1.2.22 | Cell reselection / MFBI / UE does not support multiBandInfoList | Rel-8 to Rel-9 only | C229 | UEs supporting E-UTRA and not support MFBI feature indicated by Feature Group Indicator 31 | pc_eFDD | | | |
| | | - , | C230 | | pc_eTDD | | | |
| 6.2.1.1 | Inter-RAT PLMN Selection / Selection of correct RAT for OPLMN / Automatic mode | Rel-8 | C150 | UEs supporting E-UTRA and UTRA, or, E- UTRA and UTRA and GERAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.2.1.2 | Inter-RAT PLMN Selection / Selection of correct RAT for UPLMN / Automatic mode | Rel-8 | C01 | UEs supporting E-UTRA, and UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.2.1.3 | Inter-RAT PLMN Selection / Selection of correct PLMN and RAT in shared network environment / Automatic mode | Rel-8 | C01 | UEs supporting E-UTRA, and UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.2.1.4 | Inter-RAT PLMN Selection/ Selection of correct RAT from the OPLMN list/ Manual mode | Rel-8 | C214 | UEs supporting E-UTRA and GERAN and not supporting ManualModeNetworkSelectionException | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.1.6 | Inter-RAT Background HPLMN Search / Search for correct RAT for HPLMN / Automatic Mode | Rel-8 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.2.1 | Inter-RAT cell selection / From E-UTRA RRC_IDLE to UTRA_Idle / Serving cell becomes non-suitable | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.2.2.2 | Inter-RAT cell selection / From E-UTRA RRC_IDLE to GSM_Idle/GPRS Packet_idle / Serving cell becomes non-suitable | Rel-8 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | 1 | |
| 6.2.2.3 | Inter-RAT cell selection / From E-UTRA RRC_IDLE to HRPD Idle / Serving cell becomes non-suitable | Rel-8 | C06 | UEs supporting E-UTRA and HRPD | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.2.4 | Inter-RAT cell selection / From E-UTRA RRC_IDLE to 1xRTT idle / Serving cell becomes | Rel-8 | C07 | UEs supporting E-UTRA and 1xRTT | pc_eFDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | non-suitable | | | | pc eTDD | | | |
| 6.2.2.5 | Cell selection / No USIM | Rel-8 | C182 | UEs supporting E-UTRA and UTRA and not supporting of IMS emergency call | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.2.2.6 | Inter-RAT Cell selection / From GSM_Idle/GPRS Packet_idle to E-UTRA_RRC_IDLE / Serving cell becomes non-suitable | Rel-8 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | |
| l | | | | | pc_eTDD | | | |
| 6.2.2.7 | Inter-RAT Cell selection / From GSM_Idle/GPRS Packet_idle to E-UTRA_RRC_IDLE ,when the serving cell is barred | Rel-8 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | |
| | , , , , , , , , , , , , , , , , , , , | | | | pc_eTDD | | | |
| 6.2.2.8 | Inter-RAT cell selection / From UTRA_Idle to E- UTRA RRC_IDLE / Serving cell becomes non- suitable | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| | | | | | pc eTDD | | | Rel-9 UTRA TDD |
| 6.2.3.1 | Inter-RAT cell reselection / From E-UTRA RRC_IDLE to GSM_Idle/GPRS Packet_Idle | Rel-8 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | |
| 6.2.3.1a | Inter-RAT cell reselection / From E-UTRA RRC_IDLE to GSM_Idle/GPRS Packet_Idle (Squal < Thresh _{Serving, LowQ} , Srxlev > Thresh _{X, LowP} and Srxlev > Thresh _{X, HighP}) | Rel-9 | C171 | UEs supporting E-UTRA and GERAN and Squal based cell reselection between E-UTRAN and GERAN | pc_eFDD | | Note 3 | Rel-8 GERAN |
| | | | | | pc eTDD | | - | |
| 6.2.3.2 | Void | | | | po_0100 | | | |
| 6.2.3.3 | Inter-RAT cell reselection / From UTRA_Idle to E- UTRA RRC_IDLE | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.2.3.3a | Inter-RAT cell reselection / From UTRA_Idle to E- UTRA RRC_IDLE (QqualminEUTRA, Squal _{ServingCell} < Thresh _{serving,low2} , Squal _{nonServingCell,x} > Thresh _{x, low2} and Squal _{nonServingCell,x} > Thresh _x , hinh ²) | Rel-9 | C126 | UEs supporting E-UTRA and UTRA and supporting Squal based cell reselection to UTRAN from E-UTRAN | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| 6.2.3.4 | Inter-RAT Cell Reselection / From UTRA | Rel-8 | C77 | UEs supporting E-UTRA and UTRA and | pc_eFDD | | | |
| | CELL_PCH state to E-UTRA RRC_IDLE | | | EUTRA Feature Group Indicator 1 | - | | | |
| ļ | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.2.3.4a | Inter-RAT Cell Reselection / From UTRA CELL_PCH state to E-UTRA RRC_IDLE based on RSRQ+RSRP evaluation | Rel-9 | C77 | UEs supporting E-UTRA and UTRA and EUTRA Feature Group Indicator 1 | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | | | pc eTDD | | - | Rel-9 UTRA TDD |
| 6.2.3.5 | Inter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.2.3.5a | Inter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle (Squal > Thresh _{X, HighQ} , Squal < Thresh _{Serving, LowQ} , Squal > Thresh _{X, LowQ} and S _{nonIntraSearchQ}) | Rel-9 | C127 | UEs supporting E-UTRA and UTRA and supporting Squal based cell reselection to E- UTRAN from UTRAN | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| 6.2.3.6 | Inter-RAT cell reselection / From E-UTRA | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | + | | 1 |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | RRC_IDLE to UTRA_Idle according to RAT priority provided by dedicated signalling | | | | | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.2.3.7 | Inter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher reselection priority than E-UTRA | Rel-8 | C06 | UEs supporting E-UTRA and HRPD | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.7a | Inter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher reselection priority than E-UTRA (Srxlev > Thresh _{HRPD, High}) | Rel-9 | C06 | UEs supporting E-UTRA and HRPD | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.8 | Inter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower reselection priority than E-UTRA | Rel-8 | C06 | UEs supporting E-UTRA and HRPD | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.8a | Inter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower reselection priority than E-UTRA (Squal < Thresh _{Serving, LowQ} and Srxlev > Thresh _{HRPD, LowP} | Rel-9 | C06 | UEs supporting E-UTRA and HRPD | pc_eFDD | | | |
| | | | | | pc eTDD | | | |
| 6.2.3.9 | Inter-RAT Cell Reselection: from E-UTRA RRC_IDLE to CDMA2000 1xRTT Dormant– When CDMA2000 1xRTT cell is higher reselection priority than E-UTRA | Rel-8 | C07 | UEs supporting E-UTRA and 1xRTT | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.9a | Inter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is higher reselection priority than E-UTRA (Srxlev > Thresh _{1xRTT, High} P) | Rel-9 | C07 | UEs supporting E-UTRA and 1xRTT | pc_eFDD | | | |
| | TTTCST1xRTT, HighP) | | | | pc eTDD | | | |
| 6.2.3.10 | Inter-RAT Cell Reselection: from E-UTRA RRC_IDLE to CDMA2000 1xRTT Idle – When CDMA2000 1xRTT is lower reselection priority than E-UTRA | Rel-8 | C07 | UEs supporting E-UTRA and 1xRTT | pc_eFDD | | | |
| | | | | | pc eTDD | | | |
| 6.2.3.10a | Inter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is lower reselection priority than E-UTRA (Squal < Thresh _{Serving, Lowq} and Srxlev > Thresh _{1xRTT, LowP}) | Rel-9 | C07 | UEs supporting E-UTRA and 1xRTT | pc_eFDD | | Note 3 | |
| | Conving, Lower and a second conversion of the co | | | | pc_eTDD | | 1 | |
| 6.2.3.13 | Inter-RAT cell reselection / From UTRA_Idle to E- UTRA RRC_IDLE according to RAT priority provided by dedicated signalling | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.2.3.14 | Inter-RAT Cell Reselection / from GSM_Idle/GPRS Packet_Idle to E-UTRA (priority of E-UTRA cells are higher than the serving cell) | Rel-8 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_eTDD | | | |
| 6.2.3.15 | Inter-RAT Cell Reselection / from GSM_Idle/GPRS Packet_Idle to E-UTRA (priority of E-UTRA cells are lower than the serving cell) | Rel-8 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.16 | Inter-RAT Cell Reselection / from GSM_Idle to E- UTRAN /based on H_PRIO criteria | Rel-8 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.17 | Inter-RAT Cell Reselection / from GSM_Idle/GPRS Packet_Idle to E-UTRA (priority E-UTRA cells) | Rel-8 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.18 | Inter-RAT Cell Reselection / from GSM_Idle/GPRS Packet_Idle to E-UTRA (blacklisted E-UTRA cells) | Rel-8 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.19 | Redirection to E-UTRA upon the release of the CS connection | Rel-8 | C115 | UEs supporting E-UTRA and GERAN and speech | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.20 | Void | | | | | | | |
| 6.2.3.21 | Inter-RAT autonomous cell reselection GPRS Packet_transfer NC0 mode to E-UTRA | Rel-8 | C66 | UEs supporting E-UTRA and GERAN and GERAN to E-UTRAN neighbour cell measurements | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.22 | Void | | | | | | | |
| 6.2.3.23 | Inter-RAT Cell Reselection from GPRS Packet transfer to E-UTRA in CCN mode (PACKET CELL CHANGE CONTINUE) | Rel-8 | C114 | UEs supporting E-UTRA and GERAN and CCN towards E-UTRAN, E-UTRAN Neighbour Cell measurement reporting and Network controlled cell reselection to E-UTRAN | pc_eFDD | | | |
| 6.2.3.24 | Inter-RAT Cell Reselection from GPRS Packet transfer to E-UTRA in CCN mode (PACKET CELL CHANGE ORDER) | Rel-8 | C114 | UEs supporting E-UTRA and GERAN and CCN towards E-UTRAN, E-UTRAN Neighbour Cell measurement reporting and Network controlled cell reselection to E-UTRAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.26 | Inter-RAT Autonomous Cell Reselection GPRS Packet_transfer to E-UTRA (NC1 mode) | Rel-8 | C114 | UEs supporting E-UTRA and GERAN and CCN towards E-UTRAN, E-UTRAN Neighbour Cell measurement reporting and Network controlled cell reselection to E-UTRAN | pc_eFDD | | | |
| I | | | | | pc_eTDD | | | |
| 6.2.3.27 | Inter-RAT Cell Selection from GPRS Packet_transfer to E-UTRA (NC2 mode) | Rel-8 | C114 | UEs supporting E-UTRA and GERAN and CCN towards E-UTRAN, E-UTRAN Neighbour Cell measurement reporting and Network controlled cell reselection to E-UTRAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.28 | Inter-RAT Cell Reselection from GPRS Packet_transfer to E-UTRA (Network Assisted Cell Change) | Rel-8 | C114 | UEs supporting E-UTRA and GERAN and CCN towards E-UTRAN, E-UTRAN Neighbour Cell measurement reporting and Network controlled cell reselection to E-UTRAN | pc_eFDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_eTDD | | | |
| 6.2.3.29 | Inter-RAT cell Reselection from GPRS packet_transfer to E-UTRA in CCN mode (PACKET MEASUREMENT ORDER) | Rel-8 | C114 | UEs supporting E-UTRA and GERAN and CCN towards E-UTRAN, E-UTRAN Neighbour Cell measurement reporting and Network controlled cell reselection to E-UTRAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.30 | Inter-RAT Cell Reselection failure from GPRS Packet transfer to E-UTRA (Network Assisted Cell Change) | Rel-8 | C114 | UEs supporting E-UTRA and GERAN and CCN towards E-UTRAN, E-UTRAN Neighbour Cell measurement reporting and Network controlled cell reselection to E-UTRAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.2.3.31 | Inter-RAT cell reselection / From UTRA_Idle (low priority) to E-UTRA RRC_IDLE (high priority) according to RAT priority provided by dedicated signalling | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.2.3.32 | Inter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle, S _{nonintrasearch} | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| l | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.2.3.33 | Inter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle / Squal based cell reselection parameters are broadcast in E- UTRAN / UE does not support Squal based cell reselection in UTRAN | Rel-9 | C131 | UEs supporting E-UTRA and UTRA and not supporting Squal based cell reselection to E- UTRAN from UTRAN | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | | | pc_eTDD | | | |
| 6.2.3.34 | Inter-RAT cell reselection from E-UTRA to | Rel-9 | C189aF | UEs supporting E-UTRA and UTRA FDD and | pc_eFDD | | | |
| | UTRA / MFBI | | C189aT | MFBI feature indicated by Feature Group Indicator 31 | pc_eTDD | | | |
| 6.2.3.35 | Inter-RAT cell reselection from UTRA to E-UTRA | Rel-10 | C189aF | UEs supporting E-UTRA and UTRA FDD and | pc_eFDD | | | |
| | / MFBI | | C189aT | MFBI feature indicated by Feature Group Indicator 31 | pc_eTDD | | | |
| 6.2.4.1 | Inter-RAT absolute priority based reselection in | Rel-11 | C01a | UEs supporting E-UTRA and UTRA FDD | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | UTRA CELL_FACH to E-UTRA RRC_IDLE (Higher Priority Layers, Srxlev,x > Threshx,high and Srxlev,serv > Sprioritysearch1 and SqualServ > Sprioritysearch2) | | | | pc_eTDD | | | |
| 6.2.4.2 | Inter-RAT absolute priority based reselection in | Rel-11 | C01a | UEs supporting E-UTRA and UTRA FDD | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | UTRA CELL_FACH (Higher Priority Layers, no cell reselection to E-UTRA RRC_IDLE when Srxlev,serv < Sprioritysearch1) | | | | pc_eTDD | | | |
| 6.2.4.3 | Inter-RAT absolute priority based reselection in | Rel-11 | C01a | UEs supporting E-UTRA and UTRA FDD | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | UTRA _CELL_FACH to E-UTRA RRC_IDLE (Higher Priority Layers, Squal,x > Threshx,high2 and Srxlev,serv > Sprioritysearch1 and SqualServ > Sprioritysearch2) | | | | pc_eTDD | | | |
| 6.2.4.4 | Inter-RAT absolute priority based reselection in UTRA CELL_FACH (lower priority) to E-UTRA RRC_IDLE (higher priority) (All Layers, Srxlev,x > | Rel-11 | C01a | UEs supporting E-UTRA and UTRA FDD | pc_eFDD pc_eTDD | | Note 3 | Rel-8 UTRA FDD |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | Threshx,high) | | | | | | | |
| 6.2.4.5 | Inter-RAT absolute priority based reselection in UTRA CELL_FACH (lower priority) to E-UTRA RRC_IDLE (higher priority) (All Layers, Squal,x >ThreshX,high2) | Rel-11 | C01a | UEs supporting E-UTRA and UTRA FDD | pc_eFDD pc_eTDD | | Note 3 | Rel-8 UTRA FDD |
| 6.2.4.6 | Inter-RAT absolute priority based reselection in UTRA CELL_FACH (higher priority) to E-UTRA RRC_IDLE (lower priority) (All Layers, Srxlev,serv < Sprioritysearch1, Srxlev,serv <thresh serv,low<br="">and Srxlev,x > Threshx,low)</thresh> | Rel-11 | C01a | UEs supporting E-UTRA and UTRA FDD | pc_eFDD pc_eTDD | | Note 3 | Rel-8 UTRA FDD |
| 6.2.4.7 | Inter-RAT absolute priority based reselection in UTRA CELL_FACH (higher priority) to E-UTRA RRC_IDLE (lower priority) (All Layers, Srxlev,serv < Sprioritysearch1, Squal,serv <thresh serv,low2 and Squal,x > ThreshX,low2)</thresh | Rel-11 | C01a | UEs supporting E-UTRA and UTRA FDD | pc_eFDD pc_eTDD | | Note 3 | Rel-8 UTRA FDD |
| 6.3.1 | Inter-frequency cell reselection / From E-UTRA RRC_IDLE non-CSG cell to E-UTRA RRC_IDLE CSG cell | Rel-8 | C80 | UEs supporting E-UTRA and allowed CSG list and manual CSG selection | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.3.2 | Inter-RAT cell reselection / From GSM_Idle/GPRS Packet_Idle to E-UTRA idle CSG cell | Rel-8 | C95 | UEs supporting E-UTRA and GERAN and allowed CSG list and manual CSG selection | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.3.3 | Inter-RAT cell reselection / From UTRA_Idle to E- UTRA RRC_IDLE CSG cell | Rel-8 | C76 | UEs supporting E-UTRA and UTRA and allowed CSG list and manual CSG selection | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.3.4 | Inter-RAT cell reselection / From UTRA CELL_PCH state to E-UTRA RRC_IDLE CSG cell | Rel-8 | C82 | UEs supporting E-UTRA and UTRA and allowed CSG list and EUTRA Feature Group Indicator 1 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.3.5 | Manual support for CSG ID selection | Rel-8 | C80 | UEs supporting E-UTRA and allowed CSG list and manual CSG selection | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.3.6 | Ignoring CSG cells in cell selection/reselection when allowed CSG list is empty or not supported | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 6.3.7 | Inter-RAT Cell reselection from E-UTRA idle non- CSG cell to a UTRA CSG cell | Rel-8 | C76 | UEs supporting E-UTRA and UTRA and allowed CSG list and manual CSG selection | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.3.8 | Void | | | | | | | |
| 6.3.9 | Manual CSG ID selection across PLMNs | Rel-9 | C80 | UEs supporting E-UTRA and allowed CSG list and manual CSG selection | pc_eFDD | | | |
| 6.3.10 | Void | | | | | | | |
| 6.3.11 | Void | 1 | 1 | | | | | + |
| 6.3.12 | Void | | + | | | | | |
| 6.4.1 | Manual CSG ID selection / Hybrid cell whose CSG ID is not in the Allowed CSG list nor | Rel-9 | C80 | UEs supporting E-UTRA and allowed CSG list and manual CSG selection | pc_eFDD | | Note 3 | |

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| | | | Condition | Comment | Information Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | Operator"s list | | | | pc_eTDD | | | |
| 6.4.2 | Inter-frequency cell reselection / From E-UTRA RRC_IDLE non-CSG cell to E-UTRA RRC_IDLE member hybrid cell | Rel-9 | C80 | UEs supporting E-UTRA and allowed CSG list and manual CSG selection | pc_eFDD | | Note 3 | |
| 0.4.0 | Inter-RAT cell reselection / From E-UTRA | Rel-9 | C76 | | pc_eTDD pc_eFDD | | Neta 2 | Rel-8 UTRA FDD |
| 6.4.3 | RRC_IDLE non-CSG cell to UTRA_Idle member | Rei-9 | 076 | UEs supporting E-UTRA and UTRA and allowed CSG list and manual CSG selection | | | Note 3 | Rei-8 UTRA FDD |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.4.4 | Inter-RAT cell reselection / From E-UTRA RRC_IDLE non-member hybrid cell to UTRA_Idle member hybrid cell | Rel-9 | C76 | UEs supporting E-UTRA and UTRA and allowed CSG list and manual CSG selection | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.4.5 | Inter-RAT cell reselection / From UTRA_Idle to E- UTRA RRC_IDLE member hybrid cell | Rel-9 | C76 | UEs supporting E-UTRA and UTRA and allowed CSG list and manual CSG selection | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.4.6 | Inter-RAT cell reselection / From UTRA CELL_PCH to E-UTRA RRC_IDLE member hybrid cell | Rel-9 | C76 | UEs supporting E-UTRA and UTRA and allowed CSG list and manual CSG selection | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 6.4.7 | Inter-RAT cell reselection / From GERAN to E- UTRA RRC_IDLE member hybrid cell | Rel-9 | C95 | UEs supporting E-UTRA and GERAN and allowed CSG list and manual CSG selection | pc_eFDD | | Note 3 | |
| | | | | | pc_eTDD | | | |
| 6.5.1 | WLAN Offload / Cell Selection / EUTRA RRC_Idle to/from WLAN (Qrxlevmeas, BeaconRSSI) | Rel-12 | C225 | UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN | pc_eFDD | | | |
| | , | | | | pc_eTDD | | | |
| 6.5.2 | WLAN Offload / Cell Selection / EUTRA RRC_ldle to/from WLAN (Qrxlevmeas, BackhaulRateDIWLAN) | Rel-12 | C225 | UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN | pc_eFDD | | | |
| | , | | | | pc_eTDD | | | |
| 6.5.3 | WLAN Offload / Cell Selection / EUTRA RRC_ldle to/from WLAN (Qqualmeas, BackhaulRateUlWLAN) | Rel-12 | C225 | UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN | | | | |
| | , | | | | pc_eTDD | | | |
| 6.5.4 | WLAN Offload / Cell Selection / EUTRA | Rel-12 | C225 | UEs supporting E-UTRA and WLAN and | pc_eFDD | | | |
| | RRC_Idle to/from WLAN (Qqualmeas, ChannelUtilizationWLAN) | | | allowed offload to and from WLAN | pc_eTDD | | | |
| 6.5.5 | WLAN offload / Cell selection / EUTRA RRC_Idle to/from WLAN (ANDSF and RAN rules co- existence) | Rel-12 | C225 | UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN | pc_eFDD pc_eTDD | | | |
| 6.5.6 | WLAN Offload / Cell Selection / EUTRA RRC_ldle to WLAN Failure (WLAN identifier does not match) | Rel-12 | C225 | UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN | pc_eFDD pc_eTDD | | | |
| | LAYER 2 | | | | | | | |
| 7.1.1.1 | CCCH mapped to UL SCH/DL-SCH / Reserved logical channel ID | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_eTDD | | | |
| '.1.1.1a | CCCH mapped to UL SCH/ DL-SCH / UE Cat 0 | Rel-12 | C224 | UEs supporting E-UTRA and UE Category 0 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.1.2 | DTCH or DCCH mapped to UL SCH/DL-SCH / Reserved logical channel ID | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.2.1 | Correct selection of RACH parameters / Random access preamble and PRACH resource explicitly signalled to the UE by RRC / Non-contention based random access procedure | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.2.2 | Correct selection of RACH parameters / Random access preamble and PRACH resource explicitly signalled to the UE in PDCCH Order / Non- contention based random access procedure | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.2.3 | Correct selection of RACH parameters / Preamble selected by MAC itself / Contention based random access procedure | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc eTDD | | 1 | |
| 7.1.2.4 | Random access procedure / Successful | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | · | | | | pc_eTDD | | | |
| 7.1.2.5 | Random access procedure / MAC PDU containing multiple RARs | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.2.6 | Maintenance of uplink time alignment | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.2.7 | MAC contention resolution / Temporary C-RNTI | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.2.8 | MAC contention resolution / C-RNTI | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.2.9 | MAC backoff indicator | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.2.10.1 | CA / Random access procedure / SCell / Intra- band Contiguous CA | Rel-11 | C190 | UEs supporting E-UTRA and Intra-band contiguous Uplink Carrier Aggregation and multiple timing advances | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.2.10.2 | CA / Random access procedure / SCell / Inter- band CA | Rel-11 | C191 | UEs supporting E-UTRA and Inter-band Uplink Carrier Aggregation and multiple timing advances | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.2.10.3 | CA / Random access procedure / SCell / Intra- band non-contiguous CA | Rel-11 | C192 | UEs supporting E-UTRA and Intra-band non- contiguous Uplink Carrier Aggregation and multiple timing advances | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.2.11.1 | CA / Maintenance of uplink time alignment / Multiple TA / Intra-band Contiguous CA | Rel-11 | C190 | UEs supporting E-UTRA and Intra-band contiguous Uplink Carrier Aggregation and multiple timing advances | pc_eFDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_eTDD | | | |
| 7.1.2.11.2 | CA / Maintenance of uplink time alignment / Multiple TA / Inter-band CA | Rel-11 | C191 | UEs supporting E-UTRA and Inter-band Uplink Carrier Aggregation and multiple timing advances | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.2.11.3 | CA / Maintenance of uplink time alignment / Multiple TA / Intra-band non-contiguous CA | Rel-11 | C192 | UEs supporting E-UTRA and Intra-band non- contiguous Uplink Carrier Aggregation and multiple timing advances | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.2.11.4 | FDD-TDD CA / Maintenance of uplink time alignment / Multiple TA | [Rel-12] | C233 | UEs supporting E-UTRA FDD and TDD and 3DL CA and 3UL CA with tdd-FDD-CA- PCellDuplex-r12 with the first and/or second bit set to '1'and multiple timing advances | | | | |
| 7.1.3.1 | Correct handling of DL assignment / Dynamic case | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.3.2 | Correct handling of DL assignment / Semi- persistent case | Rel-8 | C100F | UEs supporting E-UTRA and semi-persistence scheduling and Feature Group Indicator 7 | pc_eFDD | | Note 12 | |
| | | | C100T | | pc_eTDD | | 1 | |
| 7.1.3.3 | MAC PDU header handling | Rel-8 | C224a | UEs supporting E-UTRA and NOT UE Category 0 | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | 1 | |
| 7.1.3.3a | MAC PDU header handling / UE Cat 0 | Rel-12 | C224 | UEs supporting E-UTRA and UE Category 0 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.3.4 | Correct HARQ process handling / DCCH and DTCH | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.3.5 | Correct HARQ process handling / CCCH | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.3.6 | Correct HARQ process handling / BCCH | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.3.7 | MAC padding | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.3.9 | MAC reset DL | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.3.11.1 | CA / Correct HARQ process handling / DCCH and DTCH / Pcell and Scell / Intra-band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.3.11.2 | CA / Correct HARQ process handling / DCCH and DTCH / Pcell and Scell / Inter-band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | Note 11 | |
| | | | | | pc_eTDD | | | |
| 7.1.3.11.3 | CA / Correct HARQ process handling / DCCH | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- | pc_eFDD | | | |
| | and DTCH / Pcell and Scell / Intra-band non- Contiguous CA | | | band non-contiguous CA | pc_eTDD | | | |
| 7.1.3.11.4 | FDD-TDD CA / Correct HARQ process handling / DCCH and DTCH / FDD PCell and TDD SCell | Rel-12 | C235 | UE supporting E-UTRA FDD and TDD and 2DL CA and 2UL CA with tdd-FDD-CA-PCellDuplex- r12 with the second bit set to '1' | | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 7.1.3.11.5 | FDD-TDD CA / Correct HARQ process handling / DCCH and DTCH / TDD PCell and FDD SCell | Rel-12 | C234 | UE supporting E-UTRA FDD and TDD and 2DL CA and 2UL CA with tdd-FDD-CA-PCellDuplex- r12 with the first bit set to '1' | | | | |
| 7.1.3.12 | TDD additional special subframe configuration / Special subframe pattern 9 with Normal Cyclic Prefix / CRS based transmission scheme | Rel-11 | C175 | UEs supporting E-UTRA TDD and TDD special subframe config | pc_eTDD | | Note 7 | |
| 7.1.3.12a | TDD additional special subframe configuration / Special subframe pattern 7 with Extended Cyclic Prefix / CRS based transmission scheme | Rel-11 | C175 | UEs supporting E-UTRA TDD and TDD special subframe config | pc_eTDD | | Note 7 | |
| 7.1.3.13 | TDD additional special subframe configuration / Special subframe pattern 9 with Normal Cyclic Prefix / UE-specific reference signals based transmission scheme | Rel-11 | C175 | UEs supporting E-UTRA TDD and TDD special subframe config | pc_eTDD | | Note 7 | |
| 7.1.3.13a | TDD additional special subframe configuration / Special subframe pattern 7 with Extended Cyclic Prefix / UE-specific reference signals based transmission scheme | Rel-11 | C175 | UEs supporting E-UTRA TDD and TDD special subframe config | pc_eTDD | | Note 7 | |
| 7.1.3.14 | Correct handling of DL assignment / Dynamic case / EPDCCH | Rel-11 | C188 | UEs supporting E-UTRA and ePDCCH | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.3.15 | Correct handling of DL assignment / Semi- persistent case / EPDCCH | Rel-11 | C188 | UEs supporting E-UTRA and ePDCCH | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.4.1 | Correct handling of UL assignment / Dynamic case | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.4.2 | Correct handling of UL assignment / Semi- persistent case | Rel-8 | C100F | UEs supporting E-UTRA and semi-persistence scheduling and Feature Group Indicator 7 | pc_eFDD | | Note 12 | |
| | | | C100T | | pc_eTDD | | | |
| 7.1.4.3 | Logical channel prioritization handling | Rel-8 | C19F | UEs supporting E-UTRA and Feature Group Indicator 6 and Feature Group Indicator 7 and NOT UE Category 0 | pc_eFDD | | Note 12 | |
| | | | C19T | 3 7 | pc_eTDD | | | |
| 7.1.4.3a | Logical channel prioritization handling / UE Cat 0 | Rel-12 | C19aF | UEs supporting E-UTRA and Feature Group Indicator 6 and Feature Group Indicator 7 and UE Category 0 | pc_eFDD | | | |
| | | | C19aT | | pc_eTDD | | | |
| 7.1.4.4 | Correct handling of MAC control information / Scheduling requests and PUCCH | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.4.5 | Correct handling of MAC control information / Scheduling requests / Random access procedure | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.4.6 | Correct handling of MAC control information / Buffer status / UL data arrive in the UE Tx buffer / Regular BSR | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.4.7 | Correct handling of MAC control information / | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |

| Clause | TC Title Release | | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | Buffer status / UL resources are allocated / | | | | | | | |
| | Padding BSR | | | | TDD | | _ | |
| 7 4 4 7- | | Dalla | | | pc_eTDD | | Note 40 | |
| 7.1.4.7a | Correct handling of MAC control information / Buffer status / UL resources are allocated / Cancellation of Padding BSR | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.4.8 | Correct handling of MAC control information / Buffer status / Periodic BSR timer expires | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.4.10 | MAC padding | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.4.11 | Correct HARQ process handling | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.4.12 | MAC reset UL | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | Note 12 | |
| | | | C16T | | pc_eTDD | | | |
| 7.1.4.13 | MAC PDU header handling | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.4.14 | Correct HARQ process handling / TTI bundling | Rel-8 | C99F | UEs supporting E-UTRA and TTI bundling and Feature Group Indicator 7 | pc_eFDD | | Note 12 | |
| | | | C99T | | pc_eTDD | | | |
| 7.1.4.15 | UE power headroom reporting / Periodic reporting | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.4.16 | UE power headroom Reporting / DL pathloss change reporting | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | _ | | pc_eTDD | | | |
| 7.1.4.18 | Correct handling of MAC control information / Buffer Status / UL data arrive in the UE Tx buffer / Extended buffer size | Rel-10 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.4.19.1 | CA / UE power headroom reporting / SCell activation and DL pathloss change reporting / Extended PHR / Intra-band Contiguous CA | Rel-10 | C133 | UEs supporting E-UTRA and Intra-band contiguous Uplink Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.4.19.2 | CA / UE power headroom reporting / SCell activation and DL pathloss change reporting / Extended PHR / Inter-band CA | Rel-11 | C162 | UEs supporting E-UTRA and Inter-band Uplink Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.4.19.3 | CA / UE power headroom reporting / SCell | Rel-11 | C207 | UEs supporting E-UTRA and Uplink Intra-band | pc_eFDD | | | |
| | activation and DL pathloss change reporting / Extended PHR / Intra-band non-Contiguous CA | | | non-Contiguous CA | pc_eTDD | | | |
| 7.1.4.20.1 | CA / Correct handling of MAC control information / Buffer status / Intra-band Contiguous CA | Rel-10 | C133 | UEs supporting E-UTRA and Intra-band contiguous Uplink Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.4.20.2 | CA / Correct handling of MAC control information / Buffer status / Inter-band CA | Rel-11 | C162 | UEs supporting E-UTRA and Inter-band Uplink Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 7.1.4.20.3 | CA / Correct handling of MAC control information | Rel-11 | C207 | UEs supporting E-UTRA and Uplink Intra-band | pc_eFDD | | | |
| | / Buffer status / Intra-band non-Contiguous CA | | | non-Contiguous CA | pc_eTDD | | | |
| 7.1.4.21 | UE power headroom reporting / Extended PHR | Rel-10 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.4.22 | Correct HARQ process handling / UL MIMO | Rel-10 | C158 | UE supporting E-UTRA and UL MIMO | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.4.23 | Correct HARQ process handling / TTI bundling with enhanced HARQ pattern | Rel-12 | C227 | UEs supporting E-UTRA FDD and TTI bundling and TTI bundling with enhanced HARQ pattern and Feature Group Indicator 7 | pc_eFDD | | | |
| 7.1.4.24 | Correct HARQ process handling / TTI bundling without resource allocation restriction | Rel-12 | C228 | UEs supporting E-UTRA and TTI bundling and NOT UE Category 0 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.4.24a | Correct HARQ process handling / TTI bundling without resource allocation restriction / UE Cat 0 | Rel-12 | C228a | UEs supporting E-UTRA and TTI bundling and UE Category 0 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.4.25.1 | FDD-TDD CA / Correct HARQ process handling / PUSCH / FDD PCell and TDD SCell | Rel-12 | C235 | UE supporting E-UTRA FDD and TDD and 2DL CA and 2UL CA with tdd-FDD-CA-PCellDuplex- r12 with the second bit set to '1' | | | | |
| 7.1.4.25.2 | FDD-TDD CA / Correct HARQ process handling / PUSCH / TDD PCell and FDD SCell | Rel-12 | C234 | UE supporting E-UTRA FDD and TDD and 2DL CA and 2UL CA with tdd-FDD-CA-PCellDuplex- r12 with the first bit set to '1' | | | | |
| 7.1.5.1 | Inter-TTI PUSCH hopping by uplink grant | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| - | | | | | pc_eTDD | | | |
| 7.1.5.2 | Predefined intra-TTI PUSCH hopping (N_sb=1) | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.5.3 | Predefined intra-TTI PUSCH hopping (N_sb=2/3/4) | Rel-8 | C58F | UEs supporting E-UTRA and Feature Group Indicator 21 | pc_eFDD | | Note 12 | |
| | | | C58T | | pc_eTDD | | | |
| 7.1.5.4 | Predefined inter-TTI PUSCH hopping (N_sb=1) | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.5.5 | Predefined inter-TTI PUSCH hopping (N_sb=2/3/4) | Rel-8 | C58F | UEs supporting E-UTRA and Feature Group Indicator 21 | pc_eFDD | | Note 12 | |
| | | | C58T | | pc_eTDD | | | |
| 7.1.6.1 | DRX operation / Short cycle not configured / Parameters configured by RRC | Rel-8 | C08F | UEs supporting E-UTRA and Feature Group 5 | pc_eFDD | | Note 12 | |
| | | | C08T | | pc_eTDD | | | |
| 7.1.6.2 | DRX operation / Short cycle not configured / DRX command MAC control element reception | Rel-8 | C08F | UEs supporting E-UTRA and Feature Group 5 | pc_eFDD | | Note 12 | |
| | | _ | C08T | | pc_eTDD | | | |
| 7.1.6.3 | DRX operation / Short cycle configured / Parameters configured by RRC | Rel-8 | C216F | UEs supporting E-UTRA and Feature Group 4 and Feature Group 5 | pc_eFDD | | Note 12 | |
| | | _ | C216T | | pc_eTDD | | | |
| 7.1.6.4 | DRX Operation / Short cycle configured / DRX command MAC control element reception | Rel-8 | C216F | UEs supporting E-UTRA and Feature Group 4 and Feature Group 5 | pc_eFDD | | Note 12 | |
| | | | C216T | | pc_eTDD | | | |
| 7.1.7.1.1 | DL-SCH transport block size selection / DCI format 1 / RA type 0 | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |

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| | | | | | pc_eTDD | | | |
| 7.1.7.1.2 | DL-SCH transport block size selection / DCI format 1 / RA type 1 | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.7.1.3 | DL-SCH transport block size selection / DCI format 1A / RA type 2 / Localised VRB | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | 1 | |
| 7.1.7.1.4 | DL-SCH transport block size selection / DCI format 1A / RA type 2 / Distributed VRB | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | 7 | |
| 7.1.7.1.5 | DL-SCH transport block size selection / DCI format 2A / RA type 0 / Two transport blocks enabled / Transport block to codeword swap flag value set to 0 | Rel-8 | C56 | UEs supporting E-UTRA and (UE Category 2 to UE Category 5) | pc_eFDD | | Note 12 | |
| 1 | | | | | pc_eTDD | | | |
| 7.1.7.1.6 | DL-SCH transport block size selection / DCI format 2A / RA type 1 / Two transport blocks enabled / Transport block to codeword swap flag value set to 1 | Rel-8 | C56 | UEs supporting E-UTRA and (UE Category 2 to UE Category 5) | pc_eFDD | | Note 12 | |
| | | | | | pc eTDD | | 1 | |
| 7.1.7.1.7 | DL-SCH transport block size selection / DCI format 1 / RA type 0 / 256QAM | Rel-12 | C248 | UEs supporting E-UTRA and ((UE Category 11 to UE Category 12) or (UE DL Category 11 to UE DL Category 16)) and downlink 256QAM | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.7.1.8 | DL-SCH transport block size selection / DCI format 1 / RA type 1 / 256QAM | Rel-12 | C248 | UEs supporting E-UTRA and ((UE Category 11 to UE Category 12) or (UE DL Category 11 to UE DL Category 16)) and downlink 256QAM | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.7.1.9 | DL-SCH transport block size selection / DCI format 1A / RA type 2 / Localised VRB / 256QAM | Rel-12 | C248 | UEs supporting E-UTRA and ((UE Category 11 to UE Category 12) or (UE DL Category 11 to UE DL Category 16)) and downlink 256QAM | pc_eFDD | | | |
| | | 5.1.10 | 0.0.40 | | pc_eTDD | | | |
| 7.1.7.1.10 | DL-SCH transport block size selection / DCI format 1A / RA type 2 / Distributed VRB / 256QAM | Rel-12 | C248 | UEs supporting E-UTRA and ((UE Category 11 to UE Category 12) or (UE DL Category 11 to UE DL Category 16)) and downlink 256QAM | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.7.2.1 | UL-SCH transport block size selection / DCI format 0 | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.1.8.1 | Periodic RI reporting using PUCCH / Category 1 UE / Transmission mode 3/4 | Rel-8 | C103 | UEs supporting E-UTRA and UE Category 1 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.9 | Activation/Deactivation of SCells | | | | | | | |
| 7.1.9.1.1 | CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer/ Intra-band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band Contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 7.1.9.1.2 | CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer/ Inter-band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.9.1.3 | CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer / Intra-band non-Contiguous CA | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- band non-Contiguous CA Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.1.10 | Coordinated Multi-Point Operation (CoMP) for LTE | | | | | | | |
| 7.1.10.1 | Sending SR on PUCCH with DMRS generated by using virtual cell identity / nPUCCH-Identity | Rel-11 | C208 | UEs supporting E-UTRA and UL CoMP | pc_eFDD | | | |
| | , , , , , , , , , , , , , , , , , , , | | | | pc_eTDD | | | |
| 7.1.10.2 | Transmitting data on PUSCH with DMRS generated by using virtual cell identity / nPUSCH- Identity | Rel-11 | C208 | UEs supporting E-UTRA and UL CoMP | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.2.2.1 | UM RLC / Segmentation and reassembly / 5-bit SN / Framing Info Field | Rel-8 | C15F | UEs supporting E-UTRA and Feature Group Indicator 3 and Feature Group Indicator 7 | pc_eFDD | | | |
| | Ŭ | | C15T | 1 ' | pc_eTDD | | | |
| 7.2.2.2 | UM RLC / Segmentation and reassembly / 10-bit SN / Framing Info Field | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | | |
| | N / Framing Info Field | | C16T | | pc_eTDD | | | |
| 7.2.2.3 | UM RLC / Reassembly / 5-bit SN / LI value > PDU size | Rel-8 | C15F | UEs supporting E-UTRA and Feature Group Indicator 3 and Feature Group Indicator 7 | pc_eFDD | | | |
| | | | C15T | | pc_eTDD | | | |
| 7.2.2.4 | UM RLC / Reassembly / 10-bit SN / LI value > PDU size | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | | |
| | | | C16T | | pc_eTDD | | | |
| 7.2.2.5.1 | UM RLC / 5-bit SN / Correct use of sequence numbering | Rel-8 | C15F | UEs supporting E-UTRA and Feature Group Indicator 3 and Feature Group Indicator 7 | pc_eFDD | | | |
| | | | C15T | | pc_eTDD | | | |
| 7.2.2.5.2 | UM RLC / 10-bit SN / Correct use of sequence numbering | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | | |
| | | | C16T | | pc_eTDD | | | |
| 7.2.2.6 | UM RLC / Concatenation, segmentation and reassembly | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | | |
| | | | C16T | | pc_eTDD | | | |
| 7.2.2.7 | UM RLC / In sequence delivery of upper layer PDUs without residual loss of RLC PDUs / Maximum re-ordering delay below <i>t-Reordering</i> | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | | |
| | | | C16T | | pc_eTDD | | | |
| 7.2.2.8 | UM RLC / In sequence delivery of upper layer PDUs without residual loss of RLC PDUs / Maximum re-ordering delay exceeds <i>t-Reordering</i> | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | | |
| | | | C16T |] | pc_eTDD | | | |
| 7.2.2.9 | UM RLC / In sequence delivery of upper layer | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group | pc_eFDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | PDUs with residual loss of RLC PDUs / Maximum re-ordering delay exceeds <i>t-Reordering</i> | | | Indicator 7 | | | | |
| | | | C16T | | pc_eTDD | | | |
| 7.2.2.10 | UM RLC / Duplicate detection of RLC PDUs | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | | |
| | | | C16T | | pc_eTDD | | | |
| 7.2.2.11 | UM RLC / RLC re-establishment procedure | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | | |
| | | | C16T | | pc_eTDD | | | |
| 7.2.3.1 | AM RLC / Concatenation and reassembly | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.2.3.2 | AM RLC / Segmentation and reassembly / No PDU segmentation | C / Segmentation and reassembly / No Rel-8 R I | UEs supporting E-UTRA | pc_eFDD | | Note 12 | | |
| | | | | | pc_eTDD | | | |
| 7.2.3.3 | AM RLC / Segmentation and reassembly / Framing Info Field | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| .2.3.4 | AM RLC / Segmentation and reassembly / Different numbers of length indicators | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | Ű | | | | pc_eTDD | | | |
| .2.3.5 | AM RLC / Reassembly / LI value > PDU size | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | 1 | |
| .2.3.6 | AM RLC / Correct use of sequence numbering | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| .2.3.7 | AM RLC / Control of transmit window | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| .2.3.8 | AM RLC / Control of receive window | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.2.3.9 | AM RLC / Polling for status | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| .2.3.10 | AM RLC / Receiver status triggers | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.2.3.12 | Void | | | | | | | |
| 7.2.3.13 | AM RLC / Reconfiguration of RLC parameters by upper layers | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.2.3.14 | AM RLC / In sequence delivery of upper layers PDUs | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.2.3.15 | AM RLC / Re-ordering of RLC PDU segments | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.2.3.16 | AM RLC / Re-transmission of RLC PDU without re-segmentation | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.2.3.17 | AM RLC / Re-segmentation RLC PDU / SO, FI, LSF | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | 7 | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 7.2.3.18 | AM RLC / Reassembly / AMD PDU reassembly from AMD PDU segments / SO and LSF | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.2.3.19 | Void | | | | | | | |
| 7.2.3.20 | AM RLC / Duplicate detection of RLC PDUs | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.2.3.21 | AM RLC / RLC re-establishment at RRC connection reconfiguration including mobilityControlInfo IE | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.3.1.1 | Maintenance of PDCP sequence numbers / User plane / RLC AM | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.3.1.2 | Maintenance of PDCP sequence numbers / User plane / RLC UM / Short PDCP SN (7 bits) | Rel-8 | C15F | UEs supporting E-UTRA and Feature Group Indicator 3 and Feature Group Indicator 7 | pc_eFDD | | Note 12 | |
| | | | C15T | | pc_eTDD | | | |
| 7.3.1.3 | Maintenance of PDCP sequence numbers / User plane / RLC UM / Long PDCP SN (12 bits) | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | Note 12 | |
| | | | C16T | | pc_eTDD | | | |
| 7.3.3.1 | Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / SNOW3G | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.3.3.2 | Ciphering and deciphering / Correct functionality of EPS UP encryption algorithms / SNOW3G | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.3.3.3 | Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / AES | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.3.3.4 | Ciphering and deciphering / Correct functionality of EPS UP encryption algorithms / AES | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.3.3.5 | Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / ZUC | Rel-11 | C215 | UEs supporting E-UTRA and ZUC algorithm | pc_eFDD | | Note 3 | |
| | | | | | pc_eTDD | | | |
| 7.3.3.6 | Ciphering and deciphering / Correct functionality of EPS UP encryption algorithms / ZUC | Rel-11 | C215 | UEs supporting E-UTRA and ZUC algorithm | pc_eFDD | | Note 3 | |
| | | _ | | | pc_eTDD | | | |
| 7.3.4.1 | Integrity protection / Correct functionality of EPS AS integrity algorithms / SNOW3G | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | - | | pc_eTDD | | | |
| 7.3.4.2 | Integrity protection / Correct functionality of EPS AS integrity algorithms / AES | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 7.3.4.3 | Integrity protection / Correct functionality of EPS AS integrity algorithms / ZUC | Rel-11 | C215 | UEs supporting E-UTRA and ZUC algorithm | pc_eFDD | | Note 3 | |
| | | | | | pc_eTDD | | | |
| 7.3.5.1 | Void | | | | | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 7.3.5.2 | PDCP handover / Lossless handover / PDCP sequence number maintenance | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.3.5.3 | PDCP handover / Non-lossless handover / PDCP sequence number maintenance | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | Note 12 | |
| | | | C16T | | pc_eTDD | | | |
| 7.3.5.4 | PDCP handover / Lossless handover / PDCP status report to convey the information on missing or acknowledged PDCP SDUs at handover | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.3.5.5 | PDCP handover / In-order delivery and duplicate elimination in the downlink | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 7.3.6.1 | PDCP discard | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | Note 12 | |
| | | | C16T | | pc_eTDD | | | |
| 7.3.7.1 | PDCP Uplink Routing / Split DRB | Rel-12 | C244 | UEs supporting E-UTRA and DC Split DRB | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8 | RADIO RESOURCE CONTROL | | | | | | | |
| 8.1.1.1 | Void | | | | | | | |
| 8.1.1.2 | RRC / Paging for notification of BCCH modification in idle mode | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.1.1.3 | RRC / Paging for connection in idle mode / Multiple paging records | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.1.1.4 | RRC / Paging for connection in idle mode / Shared network environment | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.1.1.6 | RRC / BCCH modification in connected mode | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | _ | | | pc_eTDD | | | |
| 8.1.1.7 | RRC / Paging / EAB active | Rel-11 | C194 | UEs supporting E-UTRA and EAB | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.1.2.1 | Void | | | | | | | |
| 8.1.2.2 | RRC connection establishment / Reject with wait time | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc eTDD | | -1 | |
| 8.1.2.3 | RRC connection establishment / Return to idle | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | <u> </u> |
| 0.112.0 | state after T300 timeout | | | | pc_eTDD | | | |
| 8.1.2.5 | RRC connection establishment / 0% access | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| 0.1.2.3 | probability for MO calls, no restriction for MO signalling | KGI-Q | ĸ | | | | | |
| <u> </u> | | | | | pc_eTDD | | | |
| 8.1.2.6 | RRC connection establishment / Non-zero percent access probability for MO calls, no | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | restriction for MO signalling | | | | pc_eTDD | | _ | |
| 8.1.2.7 | RRC connection establishment / 0% access probability for AC 0 to 9, AC 10 is barred, AC 11 to 15 are not barred, access for UE with access class in the range 11 to 15 is allowed | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 8.1.2.8 | RRC connection establishment / Range of access baring time | Rel-8 | C97 | UEs supporting E-UTRA and Multiple PDN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.1.2.9 | RRC Connection Establishment / 0% access probability for MO calls, non-zero percent access probability for MO signalling | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 8.1.2.10 | Void | | | | | | | |
| 8.1.2.11 | Void | | | | | | | |
| 8.1.2.12 | Void | | | | | | | |
| 8.1.2.13 | RRC connection establishment / 0% access probability for MO calls, 0% access probability for MO signalling | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | 7 | |
| 8.1.2.14 | RRC connection establishment / High speed flag | Rel-9 | R | UEs supporting E-UTRA | pc_eFDD pc_eTDD | | Note 3 | |
| 8.1.3.1 | Void | | | | | | | |
| 8.1.3.3 | Void | | | | | | | |
| 8.1.3.4 | RRC connection release / Redirection to another E-UTRAN frequency | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | _ | _ | | pc_eTDD | | | |
| 8.1.3.5 | RRC connection release / Success / With priority information | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | 5.1.0 | 0.01 | | pc_eTDD | | | |
| 8.1.3.6 | RRC connection release / Redirection from E- UTRAN to UTRAN | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| 0400- | DDC compaction values of Desting other from 5 | Dalla | 001 | | pc_eTDD | - | Nata 2 | Rel-9 UTRA TDD |
| 8.1.3.6a | RRC connection release / Redirection from E- UTRAN to UTRAN / Pre-redirection info | Rel-9 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | 5.1.0 | 0.01 | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.1.3.7 | RRC connection release / Redirection from UTRAN to E-UTRAN | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| | | D L O | 0.05 | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.1.3.8 | RRC connection release / Redirection from E- UTRAN to GERAN | Rel-8 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | |
| | | D 1 0 | 0.00 | | pc_eTDD | | | |
| 8.1.3.9 | RRC connection release / Redirection from E- UTRAN to HRPD | Rel-8 | C06 | UEs supporting E-UTRA and HRPD | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.1.3.10 | RRC connection release / Redirection from E- UTRAN to 1xRTT | Rel-8 | C07 | UEs supporting E-UTRA and 1xRTT | pc_eFDD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
|-----------|---|---------|-------------------|---|---------------------------|---------------|---|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_eTDD | | | |
| 8.1.3.11 | RRC connection release / Redirection to another E-UTRAN band | Rel-9 | C184 | UEs supporting E-UTRA and more than 1 FDD or TDD E-UTRA band | pc_eFDD | | Note 3 | |
| | | | | | pc_eTDD | | | |
| 8.1.3.11a | RRC connection release / Redirection to another E-UTRAN band / Inter-band / Between FDD and TDD | Rel-9 | C142 | UEs supporting E-UTRA FDD and E-UTRA TDD | | | Note 3 | |
| 8.1.3.12 | RRC connection release / Success / With priority information / Inter-band | Rel-9 | C184 | UEs supporting E-UTRA and more than 1 FDD or TDD E-UTRA band | pc_eFDD | | Note 3 Either TC 8.1.3.12 or TC 8.1.3.12b shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 8.1.3.12a | RRC connection release / Success / With priority information / Inter-band / Between FDD and TDD | Rel-9 | C142 | UEs supporting E-UTRA FDD and E-UTRA TDD | | | Note 3 | |
| 8.1.3.12b | RRC connection release / Success / With priority information / Inter-band(Single frequency operation in source band) | Rel-9 | R | UEs supporting E-UTRA | pc_eFDD | | Note 3 Either TC 8.1.3.12 or TC 8.1.3.12b shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 8.2.1.1 | RRC connection reconfiguration / Radio bearer establishment for transition from RRC_IDLE to RRC_CONNECTED / Success / Default bearer / Early bearer establishment | Rel-8 | R | R UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.1.3 | RRC connection reconfiguration / Radio bearer establishment / Success / Dedicated bearer | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.1.5 | RRC connection reconfiguration / Radio bearer establishment for transition from RRC_IDLE to RRC CONNECTED / Success / Latency check | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.1.6 | RRC connection reconfiguration / Radio bearer establishment for transition from RRC_IDLE to RRC CONNECTED / Success / Latency check / SecurityModeCommand and RRCConnectionReconfiguration transmitted in the same TTI | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc eTDD | | 1 | ł |
| 8.2.1.7 | RRC connection reconfiguration / Radio bearer establishment / Success / SRB2 | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.1.8 | RRC connection reconfiguration / Radio bearer establishment / Success / Dedicated bearer / ROHC configured | Rel-9 | C120F | UEs supporting E-UTRA and Feature Group Indicator 7 and ROHC profile0x0001 and ROHC profile0x0002 | pc_eFDD | | Note 3 | |
| | | | C120T | | pc_eTDD | | | |
| 8.2.2.1 | RRC connection reconfiguration / Radio resource | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | reconfiguration / Success | | | | | | | |
| | | | | | pc_eTDD | | | |
| 8.2.2.2 | RRC connection reconfiguration / SRB/DRB reconfiguration / Success | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.2.3.1 | CA / RRC connection reconfiguration / SCell addition/modification/release / Success / Intra- band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.2.3.2 | CA / RRC connection reconfiguration / SCell addition/modification/release / Success / Inter- band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.2.3.3 | CA / RRC connection reconfiguration / SCell addition/ modification/release / Success / Intra- band non-contiguous CA | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- band non-contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.2.4.1 | CA / RRC connection reconfiguration / SCell SI change / Success / Intra-band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | change, eucocce, mila bana contiguoue ert | | | configuedo carrier / iggregation | pc_eTDD | | | |
| 8.2.2.4.2 | CA / RRC connection reconfiguration / SCell SI change / Success / Inter-band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | | |
| | change / eucocco / inter band e/t | | | riggrogation | pc_eTDD | | | |
| 8.2.2.4.3 | CA / RRC connection reconfiguration / SCell SI change / Success / Intra-band non-contiguous CA | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- band non-contiguous Carrier Aggregation | pc_eFDD | | | |
| 0.2.2.4.0 | | | | | pc_eTDD | - | | |
| 8.2.2.5.1 | CA / RRC connection reconfiguration / SCell Addition without UL / Success / Intra-band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc eTDD | | | |
| 8.2.2.5.2 | CA / RRC connection reconfiguration / SCell Addition without UL / Success / Inter-band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.2.5.3 | CA / RRC connection reconfiguration / SCell Addition without UL / Success / Intra-band non- Contiguous CA | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- band non-contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc eTDD | | | |
| 8.2.2.6.1 | RRC connection reconfiguration/ UE Assistance Information/power preference indication setup and release | Rel-11 | C187 | UEs supporting E-UTRA and Power Preference Indication | pc_eFDD | | | |
| | | | 1 | | pc_eTDD | | | |
| 8.2.2.6.2 | RRC connection reconfiguration/ UE Assistance Information/power preference indication release on connection re-establishment | Rel-11 | C187 | UEs supporting E-UTRA and Power Preference Indication | pc_eFDD | | | |
| | | | 1 | | pc_eTDD | + | | |
| 8.2.2.6.3 | RRC connection reconfiguration/ UE Assistance | Rel-11 | C187 | UEs supporting E-UTRA and Power Preference | pc_eFDD | + | | |
| 0.2.2.0.3 | Information/T340 running | Kel-11 | 0107 | Indication | | | | |
| <u> </u> | | L | 0/22 | | pc_eTDD | | | |
| 8.2.2.7.1 | CA / RRC connection reconfiguration / sTAG | Rel-11 | C190 | UEs supporting E-UTRA and Intra-band | pc_eFDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | addition/modification/release / Success / Intra- band Contiguous CA | | | contiguous Uplink Carrier Aggregation and multiple timing advances | | | | |
| | | | | | pc_eTDD | | | |
| 8.2.2.7.2 | CA / RRC connection reconfiguration / sTAG addition/modification/release / Success / Inter- band CA | Rel-11 | C191 | UEs supporting E-UTRA and Inter-band Uplink Carrier Aggregation and multiple timing advances | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.2.7.3 | CA / RRC connection reconfiguration / sTAG addition/modification/release / Success / Intra- band non-Contiguous CA | Rel-11 | C192 | UEs supporting E-UTRA and Intra-band non- contiguous Uplink Carrier Aggregation and multiple timing advances | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.2.8 | RRC connection reconfiguration / SIB1 information / Success | Rel-11 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| I | | | | | pc_eTDD | | | |
| 8.2.2.9.1 | RRC connection reconfiguration / PSCell addition and SCG release / SCG / DRB | Rel-12 | C245 | UEs supporting E-UTRA and DC SCG DRB | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.2.9.2 | RRC connection reconfiguration / PSCell addition and SCG release / Split DRB | Rel-12 | C244 | UEs supporting E-UTRA and DC Split DRB | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.2.9.5 | RRC connection reconfiguration / SCG change without handover / Split DRB modification within the same PSCell | Rel-12 | C244 | | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.3.1 | RRC connection reconfiguration / Radio bearer release / Success | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.1 | RRC connection reconfiguration / Handover / Success / Dedicated preamble | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.2 | RRC connection reconfiguration / Handover / Success / Common preamble | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.3 | RRC connection reconfiguration / Handover / Success / Intra-cell / Security reconfiguration | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.4 | RRC connection reconfiguration / Handover / Failure / Intra-cell / Security reconfiguration | tion | R | | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.5 | RRC connection reconfiguration / Handover / All parameters included | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | · | | | | pc_eTDD | | | |
| 8.2.4.6 | RRC connection reconfiguration / Handover / Success / Inter-frequency | Rel-8 | C21F | UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 | pc_eFDD | | | |
| | | | C21T | | pc_eTDD | | | |
| 8.2.4.7 | RRC connection reconfiguration / Handover / Failure / Re-establishment successful | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 8.2.4.8 | RRC connection reconfiguration / Handover / Failure / Re-establishment failure | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.9 | RRC connection reconfiguration / Handover / Inter-band blind handover / Success | Rel-8 | C185F | UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 and more than 1 FDD or TDD E-UTRA band | pc_eFDD | | | |
| | | | C185T | | pc_eTDD | | | |
| 8.2.4.10 | RRC connection reconfiguration / Handover / Between FDD and TDD | Rel-8 | C63 | UEs supporting E-UTRA FDD and E-UTRA TDD and FDD Feature Group Indicator 25 and FDD Feature Group Indicator 30 and TDD Feature Group Indicator 25 and TDD Feature Group Indicator 30 | | | | |
| 8.2.4.12 | RRC connection reconfiguration / Handover / Setup and release of MIMO | Rel-8 | C56 | UEs supporting E-UTRA and (UE Category 2 to UE Category 5) | | | | |
| L | | | | | pc_eTDD | | | |
| 8.2.4.13 | RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band | Rel-9 | C185F | UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 and more than 1 FDD or TDD E-UTRA band | pc_eFDD | | Note 3 | |
| I | | | C185T | | pc_eTDD | | | |
| 8.2.4.13a | RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band / Between FDD and TDD | Rel-9 | C63 | UEs supporting E-UTRA FDD and E-UTRA TDD and FDD Feature Group Indicator 25 and FDD Feature Group Indicator 30 and TDD Feature Group Indicator 25 and TDD Feature Group Indicator 30 | | | Note 3 | |
| 8.2.4.14 | RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter-band | Rel-9 | C185F | UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 and more than 1 FDD or TDD E-UTRA band | pc_eFDD | | Note 3 | |
| | | | C185T | | pc_eTDD | | 1 | |
| 8.2.4.14a | RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter-band / Between FDD and TDD | Rel-9 | C63 | UEs supporting E-UTRA FDD and E-UTRA TDD and FDD Feature Group Indicator 25 and FDD Feature Group Indicator 30 and TDD Feature Group Indicator 25 and TDD Feature Group Indicator 30 | | | Note 3 | |
| 8.2.4.15 | RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band | Rel-9 | C185F | UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 and more than 1 FDD or TDD E-UTRA band | pc_eFDD | | Note 3 | |
| | | | C185T | | pc_eTDD | | | |
| 8.2.4.15a | RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band / Between FDD and TDD | Rel-9 | C63 | UEs supporting E-UTRA FDD and E-UTRA TDD and FDD Feature Group Indicator 25 and FDD Feature Group Indicator 30 and TDD Feature Group Indicator 25 and TDD Feature Group Indicator 30 | | | Note 3 | |
| 8.2.4.16.1 | CA / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band Contiguous CA | Rel-10 | C176 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation and does not support Category 1 | pc_eFDD | | | |
| 8.2.4.16.2 | CA / RRC connection reconfiguration / Setup and | Rel-10 | C177 | UEs supporting E-UTRA and Inter-band Carrier | pc_eTDD pc_eFDD | | | |
| 0.2.4.10.2 | Change of MIMO / Inter-band CA | Kel-10 | | Aggregation and does not support Category 1 | pc_erdd | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_eTDD | | | |
| 8.2.4.16.3 | CA / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band non-Contiguous CA | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- band non-contiguous Carrier Aggregation | pc_eFDD pc_eTDD | - | | |
| 8.2.4.17.1 | CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell addition / Intra-band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.17.2 | CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell addition / Inter-band CA | Rel-10 | C242 | UEs supporting E-UTRA and Inter-band Carrier Aggregation and UL (Pcell) supported in each band of Inter-band CA combination under test | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.17.3 | CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell addition / Intra-band non-contiguous CA | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- band non-contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.18.1 | CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.18.2 | CA / RRC connection reconfiguration / Handover / Success / SCell release / Inter-band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.18.3 | CA / RRC connection reconfiguration / Handover | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- | pc_eFDD | | | |
| | / Success / SCell release / Intra-band non- Contiguous CA | | | band non-contiguous Carrier Aggregation | pc_eTDD | | | |
| 8.2.4.19.1 | CA / RRC connection reconfiguration / Handover / Success / PCell Change / SCell no Change / Intra-band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc eTDD | | | |
| 8.2.4.19.2 | CA / RRC connection reconfiguration / Handover / Success / PCell Change / SCell no Change / Inter-band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.19.3 | CA / RRC connection reconfiguration / Handover / Success / PCell Change/ Scell no Change / Intra-band non-contiguous CA | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- band non-contiguous Carrier Aggregation | pc_eFDD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 8.2.4.20.1 | CA / RRC connection reconfiguration / Handover / Scell Change / Success / Intra-band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.20.2 | CA / RRC connection reconfiguration / Handover / Scell Change / Success / Inter-band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.20.3 | CA / RRC connection reconfiguration / Handover | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- | pc_eFDD | | | |
| | / Scell Change / Success / Intra-band non- Contiguous CA | | | band non-contiguous Carrier Aggregation | pc_eTDD | | | |
| 8.2.4.21.1 | CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.21.2 | CA / RRC connection reconfiguration / Handover / Success / SCell release / Inter-band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | | |
| 8.2.4.21.3 | CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non- contiguous CA | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- band non-contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.22 | Void | | | | | | | |
| 8.2.4.23.1 | CA / RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Intra- band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc eTDD | | | |
| 8.2.4.23.2 | CA / RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter- band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc eTDD | | | |
| 8.2.4.23.3 | CA / RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Intra- band non-Contiguous CA | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- band non-Contiguous Carrier Aggregation | pc_eFDD | | | |
| | , i i i i i i i i i i i i i i i i i i i | | | | pc_eTDD | | | |
| 8.2.4.25.1 | RRC connection reconfiguration / Intra-MeNB and SeNB Handover / MCG DRB to MCG DRB and MSC DRB to/from SCG DRB | Rel-12 | C245 | UEs supporting E-UTRA and DC SCG DRB | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.2.4.25.2 | RRC connection reconfiguration / Intra-MeNB and SeNB Handover / MCG/SCG DRBs to/from Split DRB | Rel-12 | C246 | UEs supporting E-UTRA and DC Split DRB and DC SCG DRB | pc_eFDD | | | |
| | | | | | pc_eTDD | 1 | | |
| 8.3.1.1 | Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A1 | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| L | | | | | pc_eTDD | | | |
| 8.3.1.2 | Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A2 | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |

| Image: mark state in the state in the interpretation control and reporting and inter-frequency indicator 25 Rel-9 Condition Comment Specific LST Measurement configuration control and reporting and inter-frequency indicator 25 PC_4PDD Image: mark state interpretation control and reporting and inter-frequency indicator 25 PC_4PDD Image: mark state interpretation control and reporting inter | Clause | TC Title | Release Applicabili ty | | | Additional Information | | | |
|--|--------------------|--|---------------------------|------|--|---------------------------|---------------|--------------------------------|----------------------|
| 3.3.1.3 Measurement configuration control and reporting simultaneous events A3 (intra and inter-frequency measurements) Rel-8 C10F UEs supporting E-UTRA and Feature Group indicator 25 pc_eFDD pc_eFDD 8.3.1.3.8 Measurement configuration control and reporting simultaneous events A3 (intra and inter-frequency measurements) Rel-9 C10F UEs supporting E-UTRA and Feature Group indicator 25 pc_eFDD Note 3 8.3.1.4 Measurement configuration control and reporting for frequency measurements / Neo simultaneous events A3 (intra and inter-frequency measurements) Rel-9 C10T UEs supporting E-UTRA and Feature Group indicator 25 pc_eFDD Note 3 8.3.1.4 Measurement configuration control and reporting for frequency measurements / Neo simultaneous events A3 (intra and inter-frequency measurements) Rel-8 C10T UEs supporting E-UTRA and Feature Group indicator 25 pc_eFDD pc_eF | | | | | Comment | Specific ICS | Specific IXIT | | Release other RAT |
| Intra E-UTRAN measurements / Two simultaneous events A3 (intra and inter-frequency measurements) Rei-9 C107 Indicator 25 pc.eTDD Pc.eTDD 8.3.1.3 Measurement configuration control and reporting measurements) / RSRQ based measurements Rei-9 C107 C107 Pc.eTDD Pc.eTDD 8.3.1.4 Measurement configuration control and reporting reporting (intra and inter-frequency measurements) / RSRQ based measurements Rei-8 C117 UEs supporting E-UTRA and Feature Group indicator 25 Pc.eTDD Pc.eTDD 8.3.1.5 Measurement configuration control and reporting reporting (intra and inter-frequency measurements) Rei-8 C117 UEs supporting E-UTRA and Feature Group indicator 25 Pc.eTDD Pc.eTDD 8.3.1.5 Measurement configuration control and reporting reporting (intra and inter-frequency measurements) Rei-8 C10F UEs supporting E-UTRA and Feature Group indicator 25 Pc.eTDD Pc.eTDD 8.3.1.6 Measurement configuration control and reporting r/Intra E-UTRAN measurements / Two simultaneous event A3 (intra-frequency measurements) Rei-8 R UEs supporting E-UTRA Pc.eTDD Pc.eTDD 8.3.1.6 Measurement configuration control and reporting r/Intra E-UTRAN measurements / Bicklisting Rei-8 R UEs supporting E-UTRA Pc.eTDD Pc.eTDD 8.3.1.7 Measurement configuration control and reporting r/Intra E-UTRAN measurements / Bicklisting </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>pc_eTDD</td> <td></td> <td></td> <td></td> | | | | | | pc_eTDD | | | |
| 8.3.1.3a Measurement configuration control and reporting initianeous events A3 (intra main inter-frequency measurements) Rel-9 C10F UEs supporting E-UTRA and Feature Group Indicator 25 pc_eFDD Note 3 8.3.1.4 Measurement configuration control and reporting / Intra E-UTRAN measurements / Periodic reporting (intra and inter-frequency measurements) Rel-8 C10F UEs supporting E-UTRA and Feature Group Indicator 16 and Feature Group Indicator 25 pc_eTDD Image: Control | / In sim | ntra E-UTRAN measurements / Two nultaneous events A3 (intra and inter-frequency | Rel-8 | | | | | | |
| / Intra E-UTRAN measurements / Two measurements) / RSRQ based measurements Indicator 25 Indicator 25 8.3.1.4 / Intra E-UTRAN measurements / Proidoc reporting (intra and inter-frequency measurements) Rel-8 C11F UEs supporting E-UTRA and Feature Group Indicator 16 and Feature Group Indicator 25 pc_eFDD 8.3.1.5 Measurement configuration control and reporting / Intra E-UTRAN measurements / Two sublaneous event AS (Intra Inter-frequency measurements) Rel-8 R UEs supporting E-UTRA pc_eFDD 8.3.1.6 Measurement configuration control and reporting / Intra E-UTRAN measurements / Two sublaneous event AS (Intra Intervence) measurements) Rel-8 R UEs supporting E-UTRA and Feature Group Indicator 25 pc_eFDD | | | | | | | | | |
| 8.3.1.4 Measurement configuration control and reporting (intra and inter-frequency measurements) Rel-8 C11F UEs supporting E-UTRA and Feature Group Indicator 25 pc_eFDD | / In sim | ntra E-UTRAN measurements / Two nultaneous events A3 (intra and inter-frequency | Rel-9 | C10F | | | | Note 3 | |
| / Intra E-UTRAN measurements / Periodic measurements) Indicator 16 and Feature Group Indicator 25 | | | | | 7 | | | | |
| C11T DC_eTDD C 8.3.1.5 Measurement configuration control and reporting simultaneous event A3 (intra-frequency measurements) Rel-8 R UEs supporting E-UTRA pc_eFDD pc_eTDD pc_eTDD 8.3.1.6 Measurement configuration control and reporting /Intra E-UTRAN measurements / Two simultaneous events A2 and A3 (inter-frequency measurements) Rel-8 R UEs supporting E-UTRA and Feature Group Indicator 25 pc_eTDD pc_eTDD pc_eTDD 8.3.1.7 Measurement configuration control and reporting /Intra E-UTRAN measurements / Handover / IE measurement configuration control and reporting /Intra E-UTRAN measurements / Handover / IE measurement configuration control and reporting /Intra E-UTRAN measurements / Handover / IE measurement configuration control and reporting /Intra E-UTRAN measurements / Handover / IE measurement configuration control and reporting /Intra E-UTRAN measurements / Intra-frequency handover / IE measurement configuration not present Rel-8 R UEs supporting E-UTRA pc_eFDD pc_eFDD pc_eTD 8.3.1.9 Measurement configuration control and reporting /Intra E-UTRAN measurement configuration not present Rel-8 R UEs supporting E-UTRA pc_eFDD Either TC 8.3.1.9 or TC 8.3.1.9 a shall be executed. (Note 4) Either TC 8.3.1.9 or TC 8.3.1.9 a shall be executed. (Note 4) Pc_eFDD Either TC 8.3.1.9 or TC 8.3.1.9 a shall be executed. (Note 4) Pc_eFDD Either TC 8.3.1.9 or TC 8.3.1.9 | / In rep | ntra E-UTRAN measurements / Periodic porting (intra and inter-frequency | Rel-8 | C11F | UEs supporting E-UTRA and Feature Group Indicator 16 and Feature Group Indicator 25 | pc_eFDD | | | |
| / Intra E-UTRAN measurements / Two immutaneous event A3 (intra-frequency measurements) Rel-8 C10F UEs supporting E-UTRA and Feature Group Indicator 25 pc_eTDD pc_eTDD 8.3.1.6 Measurement configuration control and reporting / Intra E-UTRAN measurements / Name imutaneous events A2 and A3 (inter-frequency measurements) Rel-8 R UEs supporting E-UTRA and Feature Group Indicator 25 pc_eTDD pc_eTDD 8.3.1.7 Measurement configuration control and reporting / Intra E-UTRAN measurements / Blacklisting Rel-8 R UEs supporting E-UTRA pc_eTDD pc_eTDD pc_eTDD 8.3.1.8 Measurement configuration control and reporting / Intra E-UTRAN measurements / Handover / IE measurement configuration control and reporting / Intra E-UTRAN measurements / Intra-frequency handover / IE measurement configuration notor and reporting / Intra E-UTRAN measurements / Intra-frequency handover / IE measurement configuration control and reporting / Intra E-UTRAN measurements / Intra-frequency handover / IE measurement configuration not present Rel-8 R UEs supporting E-UTRA pc_eTDD Either TC 8.3.1.9 or TC 8.3.1.9 as hall be executed. (Note 4) Either TC 8.3.1.9 or TC 8.3.1.9 as hall be executed. (Note 4) pc_eTDD Either TC 8.3.1.9 or TC 8.3.1.9 as hall be executed. (Note 4) pc_eTDD Either TC 8.3.1.9 or TC 8.3.1.9 as hall be executed. (Note 4) pc_eTDD Either TC 8.3.1.9 or TC 8.3.1.9 as hall be executed. (Note 4) pc_eTDD Either TC 8.3.1.9 or TC 8 | | , | | C11T | | pc_eTDD | | | |
| Accord pc.eTDD pc.eTDD pc.eTDD pc.eTDD pc.eTDD pc.eFDD | / In sim | ntra E-UTRAN measurements / Two nultaneous event A3 (intra-frequency | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| 8.3.1.6 Measurement configuration control and reporting simultaneous events A2 and A3 (inter-frequency measurements) Rel-8 C10F UEs supporting E-UTRA and Feature Group indicator 25 pc_eFDD pc_eTDD pc_eTDD 8.3.1.7 Measurement configuration control and reporting /Intra E-UTRAN measurements / Blacklisting Rel-8 R UEs supporting E-UTRA pc_eTDD | 1110 | | | | | pc_eTDD | | | |
| C10T pc_eTDD pc_eTDD 8.3.1.7 Measurement configuration control and reporting / Intra E-UTRAN measurements / Blacklisting Rel-8 R UEs supporting E-UTRA pc_eTDD | / In sim | ntra E-UTRAN measurements / Two nultaneous events A2 and A3 (inter-frequency | Rel-8 | C10F | | | | | |
| 8.3.1.7 Measurement configuration control and reporting / Intra E-UTRAN measurements / Blacklisting Rel-8 R UEs supporting E-UTRA pc_eFDD pc_eFDD pc_eFDD 8.3.1.8 Measurement configuration control and reporting / Intra E-UTRAN measurements / Handover / IE measurement configuration present Rel-8 R UEs supporting E-UTRA pc_eFDD pc_eFDD pc_eFDD pc_eTDD pc_eTD pc_eTD pc_eTD pc_eTD | inc | | | C10T | - | nc eTDD | | | |
| 8.3.1.8 Measurement configuration control and reporting /Intra E-UTRAN measurements / Handover / IE measurement configuration present Rel-8 R UEs supporting E-UTRA pc_eFDD | 8.3.1.7 Me / In | easurement configuration control and reporting htra E-UTRAN measurements / Blacklisting | Rel-8 | | UEs supporting E-UTRA | | | | |
| / Intra E-UTRAN measurements / Handover / IE measurement configuration present measurements / Intra-frequency handover / IE measurements / Intra-frequency handover / IE measurement configuration not present Rel-8 R UEs supporting E-UTRA pc_eTDD Either TC 8.3.1.9 or TC 8.3.1.9 a shall be executed. (Note 4) 8.3.1.9 Measurement configuration control and reporting / Intra Frequency measurements / Intra-frequency handover / IE measurement configuration not present Rel-8 R UEs supporting E-UTRA This test is 'cells on single frequency only' equivalent of TC 8.3.1.9 pc_eTDD Either TC 8.3.1.9 or TC 8.3.1.9 a shall be executed. (Note 4) 8.3.1.90 Measurement configuration control and reporting / Intra Frequency operation Rel-8 R UEs supporting E-UTRA This test is 'cells on single frequency only' equivalent of TC 8.3.1.9 pc_eTDD Either TC 8.3.1.9 a shall be executed. (Note 4) 8.3.1.10 Measurement configuration control and reporting / Intra E-UTRAN measurements / Inter-frequency handover / IE measurement configuration not present Rel-8 C21F UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 pc_eFDD Either TC 8.3.1.9 | | - | | | | pc_eTDD | | | |
| Image: Construction of the configuration control and reporting / Intra E-UTRA measurements / Intra-frequency handover / IE measurement configuration not present Rel-8 R UEs supporting E-UTRA present pc_eFDD Either TC 8.3.1.9 or TC 8.3.1.9 or TC 8.3.1.9 or TC 8.3.1.9 a shall be executed. (Note 4) 8.3.1.9a Measurement configuration control and reporting / Intra Frequency measurements / Intra-frequency measurement configuration not present / Single Frequency operation Rel-8 R UEs supporting E-UTRA This test is 'cells on single frequency only' equivalent of TC 8.3.1.9 pc_eFDD Either TC 8.3.1.9 or TC 8.3.1.9 or TC 8.3.1.9 or TC 8.3.1.9 8.3.1.10 Measurement configuration control and reporting / Intra E-UTRA measurements / Inter-frequency handover / IE measurement configuration not present / Single Frequency operation Rel-8 C21F UEs supporting E-UTRA and Feature Group Indicator 25 pc_eFDD Image: Carrier operation operation operation operation not present / Single Frequency indicator indicator indicator indicator i | / In | ntra E-UTRAN measurements / Handover / IE | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| 8.3.1.9 Measurement configuration control and reporting / Intra E-UTRAN measurements / Intra-frequency handover / IE measurement configuration not present Rel-8 R UEs supporting E-UTRA pc_eFDD Either TC 8.3.1.9 or TC 8.3.1.9 a shall be executed. (Note 4) 8.3.1.9a Measurement configuration control and reporting / Intra Frequency measurements / Intra-frequency handover / IE measurement configuration not present / Single Frequency operation Rel-8 R UEs supporting E-UTRA This test is 'cells on single frequency only' equivalent of TC 8.3.1.9 pc_eFDD Either TC 8.3.1.9 or TC 8.3.1.9 a shall be executed. (Note 4) 8.3.1.10 Measurement configuration control and reporting / Intra E-UTRAN measurements / Inter-frequency handover / IE measurement configuration not present Rel-8 C21F UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 pc_eFDD Either TC 8.3.1.9 or TC 8.3.1.9 a shall be executed. (Note 4) 8.3.1.10 Measurement configuration control and reporting / Intra E-UTRAN measurements / Inter-frequency handover / IE measurement configuration not present Rel-8 C21F UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 pc_eFDD Either TC 8.3.1.9 or TC | | garader process | | | | pc eTDD | | | |
| 8.3.1.9a Measurement configuration control and reporting / Intra Frequency measurements / Intra-frequency handover / IE measurement configuration not present / Single Frequency operation Rel-8 R UEs supporting E-UTRA This test is 'cells on single frequency only' equivalent of TC 8.3.1.9 pc_eFDD Either TC 8.3.1.9 or TC 8.3.1.9a shall be executed. (Note 4) 8.3.1.10 Measurement configuration control and reporting / Intra E-UTRAN measurements / Inter-frequency handover / IE measurement configuration not present Rel-8 C21F UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 handover / IE measurement configuration not Pc_eFDD FC_eFDD | / In har | ntra E-UTRAN measurements / Intra-frequency ndover / IE measurement configuration not | Rel-8 | R | UEs supporting E-UTRA | | | TC 8.3.1.9a shall be executed. | |
| / Intra Frequency measurements / Intra-frequency handover / IE measurement configuration not present / Single Frequency operation This test is 'cells on single frequency only' equivalent of TC 8.3.1.9 TC 8.3.1.9a shall be executed. (Note 4) 8.3.1.10 Measurement configuration control and reporting / Intra E-UTRAN measurements / Inter-frequency handover / IE measurement configuration not present Rel-8 C21F UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 pc_eFDD Image: Control of the cont | | | | | | | | | |
| 8.3.1.10 Measurement configuration control and reporting / Intra E-UTRAN measurements / Inter-frequency handover / IE measurement configuration not present Rel-8 C21F UEs supporting E-UTRA and Feature Group Indicator 25 | / In har | ntra Frequency measurements / Intra-frequency ndover / IE measurement configuration not | Rel-8 | R | This test is 'cells on single frequency only' | | | TC 8.3.1.9a shall be executed. | |
| / Intra E-UTRAN measurements / Inter-frequency handover / IE measurement configuration not present | | | | | | | | | |
| | / In har | ntra E-UTRAN measurements / Inter-frequency ndover / IE measurement configuration not | Rel-8 | C21F | | pc_eFDD | | | |
| | pic | | | C21T | 1 | pc_eTDD | | | |

| Clause | TC Title | Release | ty | | | | | |
|-----------|--|---------|-----------|--|--------------|---------------|---|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 8.3.1.11 | Measurement configuration control and reporting / Intra E-UTRAN measurements / Continuation of the measurements after RRC connection re- establishment | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Either TC 8.3.1.11 or TC 8.3.1.11a shall be executed. (Note 4) | |
| | | _ | _ | | pc_eTDD | | | |
| 8.3.1.11a | Measurement configuration control and reporting / Intra Frequency measurements / Continuation of the measurements after RRC connection re- establishment / Single Frequency operation | Rel-8 | R | UEs supporting E-UTRA This test is 'cells on single frequency only' equivalent of TC 8.3.1.11 | pc_eFDD | | Either TC 8.3.1.11 or TC 8.3.1.11a shall be executed. (Note 4) | |
| | | 5.1.0 | 0.4005 | | | | | |
| 8.3.1.12 | Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous events A3 (Inter-band measurements) | Rel-9 | C186F | UEs supporting E-UTRA and Feature Group Indicator 25 and more than 1 FDD or TDD E- UTRA band | pc_eFDD | | Note 3 | |
| | , | | C186T | | pc_eTDD | | | |
| 8.3.1.12a | Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous events A3 (inter-band measurements) / Between FDD and TDD | Rel-9 | C130 | UEs supporting E-UTRA FDD and E-UTRA TDD and FDD Feature Group Indicator 25 and TDD Feature Group Indicator 25 | | | Note 3 | |
| 8.3.1.13 | Measurement configuration control and reporting / Intra E-UTRAN measurements / Periodic reporting (intra-frequency and inter-band measurements) | Rel-9 | C186F | UEs supporting E-UTRA and Feature Group Indicator 25 and more than 1 FDD or TDD E- UTRA band | pc_eFDD | | Note 3 | |
| | | | C186T | 1 | pc eTDD | | | |
| 8.3.1.13a | Measurement configuration control and reporting / Intra E-UTRAN measurements / Periodic reporting (intra-frequency and inter-band measurements) / Between FDD and TDD | Rel-9 | C130 | UEs supporting E-UTRA FDD and E-UTRA TDD and FDD Feature Group Indicator 25 and TDD Feature Group Indicator 25 | | | Note 3 | |
| 8.3.1.14 | Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous events A2 and A3 (Inter-band measurements) | Rel-9 | C186F | UEs supporting E-UTRA and Feature Group Indicator 25 and more than 1 FDD or TDD E- UTRA band | pc_eFDD | | Note 3 | |
| | , | | C186T | | pc_eTDD | | | |
| 8.3.1.14a | Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous events A2 and A3 (inter-band measurements) / Between FDD and TDD | Rel-9 | C130 | UEs supporting E-UTRA FDD and E-UTRA TDD and FDD Feature Group Indicator 25 and TDD Feature Group Indicator 25 | | | Note 3 | |
| 8.3.1.15 | Measurement configuration control and reporting / Intra E-UTRAN measurements / Inter-band handover / IE measurement configuration not present | Rel-9 | C185F | UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 and more than 1 FDD or TDD E-UTRA band | pc_eFDD | | Note 3 | |
| | | | C185T | 1 | pc_eTDD | | | |
| 8.3.1.15a | Measurement configuration control and reporting / Intra E-UTRAN measurements / Inter-band handover / IE measurement configuration not present / Between FDD and TDD | Rel-9 | C63 | UEs supporting E-UTRA FDD and E-UTRA TDD and FDD Feature Group Indicator 25 and FDD Feature Group Indicator 30 and TDD Feature Group Indicator 25 and TDD Feature Group Indicator 30 | | | Note 3 | |
| 8.3.1.16 | Measurement configuration control and reporting | Rel-9 | C186F | UEs supporting E-UTRA and Feature Group | pc_eFDD | | Note 3 | |
| 0.0.1.10 | precessioneric configuration control and reporting | 1161-9 | 0100 | Joes supporting E-0 mA and realure Group | Pc_ei DD | | | L |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | / Intra E-UTRAN measurements / Continuation of the measurements after RRC connection re- establishment / Inter-band | | | Indicator 25 and more than 1 FDD or TDD E- UTRA band | | | | |
| | | | C186T | | pc_eTDD | | | |
| 8.3.1.16a | Measurement configuration control and reporting / Intra E-UTRAN measurements / Continuation of the measurements after RRC connection re- establishment / Inter-band / Between FDD and TDD | Rel-9 | C63 | UEs supporting E-UTRA FDD and E-UTRA TDD and FDD Feature Group Indicator 25 and FDD Feature Group Indicator 30 and TDD Feature Group Indicator 25 and TDD Feature Group Indicator 30 | | | Note 3 | |
| 8.3.1.17.1 | CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A6 / Intra-band Contiguous CA | Rel-10 | C134F | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation and Feature Group Indicator 111 | pc_eFDD | | | |
| | | | C134T | | pc_eTDD | | | |
| 8.3.1.17.2 | CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A6 / Inter-band CA | Rel-10 | C152F | UEs supporting E-UTRA and Inter-band Carrier Aggregation and Feature Group Indicator 111 | pc_eFDD | | | |
| | | | C152T | | pc_eTDD | | | |
| | CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A6 / Intra-band non-Contiguous CA | Rel-11 | C134aF | UEs supporting E-UTRA and Downlink Intra- band non-contiguous Carrier Aggregation and Feature Group Indicator 111 | pc_eFDD | | | |
| | | | C134aT | | pc_eTDD | | | |
| 8.3.1.18.1 | CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Additional measurement reporting / Intra-band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.3.1.18.2 | CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Additional measurement reporting / Inter-band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.3.1.18.3 | CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Additional measurement reporting / Intra-band non-contiguous CA | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- band non-contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.3.1.19 | eICIC / Measurement configuration control and reporting / CSI change | Rel-10 | C154F | UEs supporting E-UTRA and Feature Group Indicator 115 | pc_eFDD | | | |
| | | | C154T | | pc_eTDD | | | |
| 8.3.1.20 | Void | | | | | | | |
| | | | | | | | | |
| | eICIC / Measurement configuration control and reporting / Event A4 Handover / Neighbour RSRP and RSRQ measurement configuration change | Rel-10 | C154F | UEs supporting E-UTRA and Feature Group Indicator 115 | pc_eFDD | | | |
| | | | C154T | | pc_eTDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 8.3.1.22.1 | CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A1 / Event A2 / Intra-band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.3.1.22.2 | CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A1 / Event A2 / Inter-band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.3.1.22.3 | CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A1/Event A2 / Intra-band non-contiguous CA | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- band non-contiguous Carrier Aggregation | pc_eFDD | | | |
| | Ŭ | | | | pc_eTDD | | | |
| 8.3.1.23 | Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A4 | Rel-9 | C166F | UEs supporting E-UTRA and Feature Group Indicator 14. | pc_eFDD | | Note3 | |
| | | | C166T | | pc_eTDD | | | |
| 8.3.1.24 | Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A5 | Rel-9 | C166F | UEs supporting E-UTRA and Feature Group Indicator 14 | pc_eFDD | | Note3 | |
| | | | C166T | | pc_eTDD | | | |
| 8.3.1.25 | Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A5 / RSRQ based measurements | Rel-9 | C166F | UEs supporting E-UTRAand Feature Group Indicator 14 | pc_eFDD | | Note3 | |
| | | | C166T | 1 | pc_eTDD | | | |
| 8.3.1.26 | Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A5 (Inter- frequency measurements) | Rel-9 | C167F | UEs supporting E-UTRA and Feature Group Indicator 14 and25 | pc_eFDD | | Note3 | |
| | | | C167T | 1 | pc_eTDD | | | |
| 8.3.1.27 | Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A5 (Inter- frequency measurements) / RSRQ based measurements | Rel-9 | C167F | UEs supporting E-UTRA and Feature Group Indicator 14 and 25 | pc_eFDD | | Note3 | |
| | | | C167T | 1 | pc_eTDD | | | |
| 8.3.1.28 | eICIC / Measurement configuration control and reporting / Event A1 / RSRP and RSRQ measurement / Serving ABS | Rel-10 | C154F | UEs supporting E-UTRA and Feature Group Indicator 115 | pc_eFDD | | | |
| | Ŭ | | C154T | 1 | pc_eTDD | | | |
| 8.3.2.1 | Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of GERAN cells | Rel-8 | C90F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 23 | pc_eFDD | | | |
| | | | C90T | 7 | pc_eTDD | | | |
| 8.3.2.2 | Measurement configuration control and reporting / Inter-RAT measurements / Periodic reporting / Measurement of GERAN cells | Rel-8 | C20F | UEs supporting E-UTRA, GERAN and Feature Group Indicators 16 and Feature Group Indicator 23 | pc_eFDD | | | |
| | | | C20T |] | pc_eTDD | | | |
| 8.3.2.3 | Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of UTRAN cells | Rel-8 | C91F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 22 | pc_eFDD | | | |
| | | | C91T | 1 | pc_eTDD | | 1 | Rel-9 UTRA TDD |
| 8.3.2.3a | Measurement configuration control and reporting | Rel-9 | C91F | UEs supporting E-UTRA and UTRA and | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |

| Clause | TC Title | Release Applicabili ty | | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | / Inter-RAT measurements / Event B2 / Measurement of UTRAN cells / RSRQ based measurements | | | Feature Group Indicator 22 | | | | |
| | | | C91T | | pc_eTDD | | | |
| 8.3.2.4 | Measurement configuration control and reporting / Inter-RAT measurements / Periodic reporting / Measurement of UTRAN cells | Rel-8 | C13F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 16 and Feature Group Indicator 22 | pc_eFDD | | | |
| - | | | C13T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.3.2.5 | Measurement configuration control and reporting / Inter-RAT measurements / Periodic reporting / Measurements of E-UTRAN, UTRAN and GERAN cells | Rel-8 | C61F | UEs supporting E-UTRA and UTRA and GERAN and Feature Group Indicator 16 and Feature Group Indicator 22 and Feature Group Indicator 23 | pc_eFDD | | | |
| | | | C61T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.3.2.6 | Measurement configuration control and reporting / Inter-RAT measurements / Simultaneous A2 and two B2 / Measurements of E-UTRAN, UTRAN and GERAN cells | Rel-8 | C17F | UEs supporting E-UTRA and UTRAN and GERAN and Feature Group Indicator 22 and Feature Group Indicator 23 | pc_eFDD | | | |
| | | | C17T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.3.2.7 | Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of HRPD cells | Rel-8 | C92F | UEs supporting E-UTRA and HRPD and Feature Group Indicator 26 | pc_eFDD | | | |
| | | | C92T | | pc_eTDD | | | |
| 8.3.2.8 | Measurement configuration control and reporting / Inter-RAT measurements / Periodic reporting / Measurement of HRPD cells | Rel-8 | C24F | UEs supporting E-UTRA and HRPD and Feature Group Indicator 16 and Feature Group Indicator 26 | pc_eFDD | | | |
| | | | C24T | | pc_eTDD | | | |
| 8.3.2.9 | Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of 1xRTT cells | Rel-8 | C93F | UEs supporting E-UTRA and 1xRTT and Feature Group Indicator 24 | pc_eFDD | | | |
| | | | C93T | | pc_eTDD | | | |
| 8.3.2.10 | Measurement configuration control and reporting / InterRAT measurements / Periodic reporting / Measurement of 1xRTT cells | Rel-8 | C25F | UEs supporting E-UTRA and 1xRTT and Feature Group Indicator 16 and Feature Group Indicator 24 | pc_eFDD | | | |
| | | | C25T | | pc_eTDD | | | |
| 8.3.2.11 | Measurement configuration control and reporting / Inter-RAT measurements / Event B1 / Measurement of UTRAN cells | Rel-9 | C168F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 15 | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | C168T | | pc_eTDD | | | |
| 8.3.3.1 | Measurement configuration control and reporting / SON / ANR / CGI reporting of E-UTRAN cell | Rel-8 | C14F | UEs supporting E-UTRA and Feature Group Indicator 5 and Feature Group Indicator 17 | pc_eFDD | | | |
| | | | C14T | | pc_eTDD | | | |
| 8.3.3.2 | Measurement configuration control and reporting / SON / ANR / CGI reporting of UTRAN cell | Rel-8 | C39F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 5 and Feature Group Indicator 19 and Feature Group Indicator 22 | pc_eFDD | | | |
| | | _ | C39T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.3.3.3 | Measurement configuration control and reporting / SON / ANR / CGI reporting of GERAN cell | Rel-8 | C40F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 5 and Feature Group Indicator 19 and Feature Group Indicator 23 | pc_eFDD | | | |

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| | | | C40T | | pc_eTDD | | | |
| | | Rel-9 | C206F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 5 and Feature Group Indicator 34 and Feature Group Indicator 23 | pc_eFDD | | | |
| | | | C206T | | pc_eTDD | | | |
| 8.3.3.4 | Measurement configuration control and reporting / SON / ANR / CGI reporting of HRPD cell | Rel-8 | C44F | UEs supporting E-UTRA and HRPD and Feature Group Indicator 5 and Feature Group Indicator 19 and Feature Group Indicator 26 | pc_eFDD | | | |
| 0 2 2 5 | Void | - | C44T | | pc_eTDD | | | |
| 8.3.3.5 8.3.4.1 | Intra-frequency SI acquisition / CSG cell and non- | Rel-9 | C80a | UEs supporting E-UTRA and Reading the SI of | pc_eFDD | | | |
| 0.3.4.1 | CSG cell | Nel-3 | Cooa | the neighbouring Intra-frequency cell using autonomous gaps and reporting and allowed ICSG list | | | | |
| | | | | | pc_eTDD | | | |
| 8.3.4.2 | Inter-frequency SI acquisition / Non-member hybrid cell | Rel-9 | C118F | UEs supporting E-UTRA and allowed CSG list and Reading the SI of the neighbouring Inter- frequency cell using autonomous gaps and reporting and Feature Group Indicator 25 | pc_eFDD | | | |
| | | | C118T | | pc_eTDD | | | |
| 8.3.4.3 | Inter-frequency SI acquisition / Member hybrid cell | Rel-9 | C118F | UEs supporting E-UTRA and allowed CSG list and Reading the SI of the neighbouring Inter- frequency cell using autonomous gaps and reporting and Feature Group Indicator 25 | pc_eFDD | | | |
| | | | C118T | | pc_eTDD | | | |
| 8.3.4.4 | Inter-RAT SI acquisition / RRC_CONNECTED / UMTS member CSG cell | Rel-9 | C119F | UEs supporting E-UTRA and UTRA and allowed CSG list and Reading the SI of the UMTS neighbouring cell using autonomous gaps and reporting and Feature Group Indicator 22 | pc_eFDD | | | Rel-8 UTRA FDD |
| | | | C119T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.3.4.5 | Inter-frequency E-UTRAN FDD - FDD / CSG Proximity Indication | Rel-9 | C170 | UEs supporting FDD E-UTRA and Inter Frequency Proximity Indication | pc_eFDD | | | |
| 8.4.1.2 | Inter-RAT handover / From E-UTRA to UTRA PS / Data | Rel-8 | C36F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 8 and Feature Group Indicator 22 | pc_eFDD | | | |
| | | | C36T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.4.1.4 | Inter-RAT handover / From E-UTRA to UTRA HSPA / Data | Rel-8 | C36F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 8 and Feature Group Indicator 22 | pc_eFDD | | | |
| | | | C36T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.4.1.5 | Inter-RAT Handover / from E-UTRA to UTRA(HSUPA/HSDPA) / Data | Rel-8 | C117F | UEs supporting E-UTRA and UTRA and HS- PDSCH and E-DPDCH and Feature Group Indicator 8 and Feature Group Indicator 22 | pc_eFDD | | | |
| | | | C117T | | pc_eTDD | | | Rel-9 UTRA TDD |

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| 8.4.2.2 | Inter-RAT handover / From UTRA PS to E-UTRA / Data | Rel-8 | C37 | UEs supporting E-UTRA and UTRA and inter- RAT PS handover to E-UTRA from UTRA and EUTRA Feature Group Indicator 2 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.4.2.4 | Inter-RAT handover / From UTRA HSPA to E- UTRA / Data | Rel-8 | C37 | UEs supporting E-UTRA and UTRA and inter- RAT PS handover to E-UTRA from UTRA and EUTRA Feature Group Indicator 2 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.4.2.7.1 | CA / RRC connection reconfiguration / Handover UTRAN to E-UTRAN/ Success / SCell addition / Intra-band Contiguous CA | Rel-10 | C155F | UEs supporting E-UTRA and UTRA and Intra- band Contiguous CA Carrier Aggregation and Feature Group Indicator 112 and inter-RAT PS handover to E-UTRA from UTRA and EUTRA Feature Group Indicator 2 | pc_eFDD | | | Rel-8 UTRA FDD |
| | | | C155T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.4.2.7.2 | CA / RRC connection reconfiguration / Handover UTRAN to E-UTRAN/ Success / SCell addition / Inter-band CA | Rel- 10 | C155aF | UEs supporting E-UTRA and UTRA and Inter- band Contiguous CA Carrier Aggregation and Feature Group Indicator 112 and inter-RAT PS handover to E-UTRA from UTRA and EUTRA Feature Group Indicator 2 | pc_eFDD | | | Rel-8 UTRA FDD |
| | | | C155aT | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.4.2.7.3 | CA / RRC connection reconfiguration / Handover UTRAN to E-UTRAN/ Success / SCell addition / Intra-band non-contiguous CA | Rel-11 | C155bF | UEs supporting E-UTRA and UTRA and Downlink Intra-band non-contiguous Carrier Aggregation and Feature Group Indicator 112 and inter-RAT PS handover to E-UTRA from UTRA and EUTRA Feature Group Indicator 2 | pc_eFDD | | | Rel-8 UTRA FDD |
| | | | C155bT | 1 | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.4.3.1 | Inter-RAT handover / From E-UTRA to GPRS / PS HO | Rel-8 | C107F | UEs supporting E-UTRA and GERAN and PS handover from E-UTRAN to GERAN and Feature Group Indicator 23 | pc_eFDD | | | |
| | | | C107T | | pc_eTDD | | | |
| 8.4.3.2 | Inter-RAT cell change order / From E-UTRA data RRC_CONNECTED to GPRS / Without NACC | Rel-8 | C38F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 10 and Feature Group Indicator 23 | pc_eFDD | | | |
| | | | C38T | | pc_eTDD | | | |
| 8.4.3.3 | Inter-RAT cell change order / From E-UTRA data to GPRS / With NACC | Rel-8 | C38F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 10 and Feature Group Indicator 23 | pc_eFDD | | | |
| | | | C38T | 1 | pc_eTDD | | | |
| 8.4.4.1 | Void | | | | | | | |
| 8.4.4.2 | Void | | | | _ | | | |
| 8.4.4.3 8.4.5.4 | Void Pre-registration at HRPD and inter-RAT handover / From E-UTRA to HRPD Active / Data | Rel-8 | C42F | UEs supporting E-UTRA and HRPD and Feature Group Indicator 12 and Feature Group Indicator 26 | pc_eFDD | | | |
| | | | C42T | | pc_eTDD | | | |
| 8.4.7.1 | Void | | | | | | | |
| 8.4.7.3 | Pre-registration at 1xRTT and inter-RAT | Rel-8 | C41 | UEs supporting E-UTRA and 1xRTT and 1xCS | pc_eFDD | | | |

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| | redirection / CS fallback from E-UTRA RRC_IDLE to 1xRTT / MT call | | | fallback | | | | | |
| | | | | | pc_eTDD | | | | |
| 8.4.7.4 | Pre-Registration at 1xRTT and inter-RAT redirection / CS fallback from E-UTRA RRC_CONNECTED to 1xRTT / MO call | Rel-8 | C41 | UEs supporting E-UTRA and 1xRTT and 1xCS fallback | pc_eFDD | | | | |
| | | | | | pc_eTDD | | | | |
| 8.4.7.5 | Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA RRC_IDLE to 1xRTT/MT call | Rel-9 | C116 | UEs supporting E-UTRA and 1xRTT and Enhanced 1xCS fallback | pc_eFDD | | | | |
| | | | | | pc_eTDD | | | | |
| 8.4.7.6 | Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA RRC_CONNECTED to 1xRTT/MO call | Rel-9 | C116 | UEs supporting E-UTRA and 1xRTT an Enhanced 1xCS fallback | pc_eFDD | | | | |
| | | | | | pc_eTDD | | | | |
| 8.4.7.7 | Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA RRC_CONNECTED to 1xRTT / ECAM-based MO call | Rel-9 | C116 | UEs supporting E-UTRA and 1xRTT and Enhanced 1xCS fallback | pc_eFDD | | | | |
| | | | | | pc_eTDD | | | | |
| 8.4.7.8 | Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA RRC_CONNECTED to 1xRTT / ECAM-based MT call | Rel-9 | Rel-9 C116 | 9 C116 U E | UEs supporting E-UTRA and 1xRTT and Enhanced 1xCS fallback | pc_eFDD | | | |
| | ini can | | | | pc_eTDD | | | | |
| 8.4.7.9 | Pre-registration at 1xRTT and inter-RAT | Rel-9 | C116 | UEs supporting E-UTRA and 1xRTT and | pc_eTDD pc_eFDD | | | | |
| 0.4.7.5 | Handover / Enhanced CS fallback from E-UTRA RRC_CONNECTED to 1xRTT / Extended Service Reject / MO call | Nor 3 | 0110 | Enhanced 1xCS fallback | | | | | |
| | | | | | pc_eTDD | | | | |
| 8.4.7.10 | Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E- UTRA call failure – GCSNA with Release Order | Rel-9 | C116 | UEs supporting E-UTRA and 1xRTT and Enhanced 1xCS fallback | pc_eFDD | | | | |
| | | | | | pc_eTDD | | | | |
| 8.4.8.1 | WLAN Offload / Offload Success / EUTRA RRC_Connected to/from WLAN (Qrxlevmeas, BackhaulRateUlWLAN) | Rel-12 | C225 | UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN | pc_eFDD | | | | |
| | | | | | pc_eTDD | | | | |
| 8.4.8.2 | WLAN Offload / Offload Success / EUTRA RRC_Connected to/from WLAN (Qrxlevmeas , ChannelUtilizationWLAN) | Rel-12 | C225 | UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN | pc_eFDD | | | | |
| | | | | | pc_eTDD | | | | |
| 8.4.8.3 | WLAN Offload / Offload Success / EUTRA RRC_Connected to/from WLAN (Qqualmeas, BeaconRSSI) | Rel-12 | C225 | UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN | pc_eFDD | | | | |
| | | | | | pc_eTDD | | | | |
| 8.4.8.4 | WLAN Offload / Offload Success / EUTRA | Rel-12 | C225a | UEs supporting E-UTRA with Carrier | pc_eFDD | | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | RRC_Connected to/from WLAN (Qqualmeas, BackhaulRateDIWLAN) / CA | | | Aggregation and WLAN and allowed offload to and from WLAN | | | | |
| | | | | | pc_eTDD | | | |
| 8.4.8.5 | WLAN Offload / T350 expiry | Rel-12 | C225 | UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.4.8.6 | WLAN Offload / Offload Success / EUTRA RRC_Connected to/from WLAN (ANDSF and RAN rules co-existence) | Rel-12 | C225 | UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN | pc_eFDD | | | |
| | | _ | _ | | pc_eTDD | | | |
| 8.5.1.1 | Radio link failure / RRC connection re- establishment Success | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.5.1.2 8.5.1.3 | Radio link failure / T301 expiry | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| | Radio link failure / T311 expiry | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.5.1.4 | Radio link failure / RRC connection re- establishment reject | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.5.1.5 | Radio link failure / Radio link recovery while T310 is running | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc eTDD | | | |
| 8.5.1.6 | Radio link failure / T311 expiry / Dedicated RLF timer | Rel-9 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.5.1.7.1 | CA / No Radio Link Failure on SCell / RRC Connection Continues on PCell / Intra-band Contiguous CA | Rel-10 | C132 | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.5.1.7.2 | CA / No Radio Link Failure on SCell / RRC Connection Continues on PCell / Inter-band CA | Rel-10 | C151 | UEs supporting E-UTRA and Inter-band Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.5.1.7.3 | CA / No Radio Link Failure on SCell / RRC Connection Continues on PCell / Intra-band non- Contiguous CA | Rel-11 | C132a | UEs supporting E-UTRA and Downlink Intra- band non-contiguous Carrier Aggregation | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.5.2.1 | Redirection to E-UTRAN / From UTRAN upon reception of RRC CONNECTION REJECT | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.5.4.1 | UE capability transfer / Success | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | 1 | | |
| 0.0 | | | | | pc_eTDD | | | |
| 8.5.4.2 | Network-requested CA Band Combination Capability Signalling / Number of UE | Rel-11 | C221 | UEs supporting E-UTRA and (Intra-band contiguous Carrier Aggregation or Intra-band | pc_eFDD pc_eFDD | | | |
| | supported CA band combinations less than or equal to 128 | | | non-contiguous Carrier Aggregation or Inter- band Carrier Aggregation) and reception of requestedFrequencyBands and less than or | | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | equal to 128 CA band combinations. | | | | |
| | | | | | pc_eTDD | | | |
| 8.5.4.3 | Network-requested CA Band Combination Capability Signalling / Number of UE supported CA band combinations exceeds 128 | Rel-11 | C222 | UEs supporting E-UTRA and (Intra-band contiguous Carrier Aggregation or Intra-band non-contiguous Carrier Aggregation or Inter- band Carrier Aggregation) and reception of requestedFrequencyBands and more than 128 CA band combinations. | pc_eFDD | | | |
| 0 5 4 4 | | D-L40 | 0004 | | pc_eTDD | - | | |
| 8.5.4.4 | UE Capability Transfer/ Success/ UE Cat 0/ UE Paging Info | Rel-12 | C224 | UEs supporting E-UTRA and UE Category 0 | pc_eFDD | | | |
| 0.0.1.1 | | D-L40 | 01.17 | | pc_eTDD | - | | |
| 8.6.1.1 | Immediate MDT / Reporting / Location information | Rel-10 | C147 | UEs supporting E-UTRA and standalone GNSS receiver to provide detailed location information | pc_eTDD | | | |
| | | | | | pc_eFDD | | | |
| 8.6.1.2 | Immediate MDT / Reporting / Location information / Request from eNB / Event A2 | Rel-11 | C147 | UEs supporting E-UTRA and standalone GNSS receiver to provide detailed location information | - | | | |
| | | | | | pc_eTDD | | | |
| 8.6.2.1 | Logged MDT / Intra-frequency measurement, logging and reporting | Rel-10 | C137 | UEs supporting E-UTRA and logged measurements in RRC_IDLE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.2.2 | Logged MDT / Inter-frequency measurement, logging and reporting | Rel-10 | C137 | UEs supporting E-UTRA and logged measurements in RRC_IDLE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.2.3 | Logged MDT / Logging and reporting / Limiting area scope | Rel-10 | C137 | UEs supporting E-UTRA and logged measurements in RRC_IDLE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.2.3a | Logged MDT / Logging and reporting / Limiting area scope / TAC list with PLMN identity | Rel-11 | C137 | UEs supporting E-UTRA and logged measurements in RRC_IDLE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.2.4 | Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA handover | Rel-10 | C137 | UEs supporting E-UTRA and logged measurements in RRC_IDLE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.2.5 | Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA re- establishment | Rel-10 | C137 | UEs supporting E-UTRA and logged measurements in RRC_IDLE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.2.6 | Logged MDT / Release of logged MDT measurement configuration / Expire of duration timer | Rel-10 | C137 | UEs supporting E-UTRA and logged measurements in RRC_IDLE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.2.7 | Logged MDT / Release of logged MDT measurement configuration / Reception of new logged measurement configuration, Detach or UE power off | Rel-10 | C137 | UEs supporting E-UTRA and logged measurements in RRC_IDLE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.2.8 | Logged MDT / Maintaining logged measurement configuration / UE state transitions and mobility | Rel-10 | C137 | UEs supporting E-UTRA and logged measurements in RRC_IDLE | pc_eFDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_eTDD | | | |
| 8.6.2.9 | Logged MDT / Location information | Rel-10 | C203 | UEs supporting E-UTRA and measurements in RRC_IDLE and standalone GNSS receiver to provide detailed location information | pc_eTDD | | | |
| | | | | | pc_eFDD | | | |
| 8.6.2.10 | Logged MDT / Logging and reporting / Reporting at RRC connection establishment / PLMN list | Rel-11 | C137 | UEs supporting E-UTRA and logged measurements in RRC_IDLE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.2.11 | Logged MDT / Logging and reporting / Reporting at intra LTE handover / PLMN list | Rel-11 | C137 | UEs supporting E-UTRA and logged measurements in RRC_IDLE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.2.12 | Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / PLMN list | Rel-11 | C137 | UEs supporting E-UTRA and logged measurements in RRC_IDLE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.2.13 | Void | _ | | | | | | |
| 8.6.3.1 | Logged MDT / UTRAN inter-RAT measurement, logging and reporting | Rel-10 | C138 | UEs supporting E-UTRA and UTRA and logged measurements in RRC_IDLE and inter-RAT PS handover to E-UTRA from UTRA and EUTRA Feature Group Indicator 2 | pc_eFDD | | | Rel-8 UTRA FDD |
| | | | | | pc eTDD | | | Rel-9 UTRA TDD |
| 8.6.3.2 | Logged MDT / GERAN Inter-RAT measurement, logging and reporting | Rel-10 | C163 | UEs supporting E-UTRA and GSM and logged measurements in RRC_IDLE and inter-RAT PS handover to E-UTRA from GSM | pc_eFDD | | | Rel-8 GERAN |
| | | | | | pc_eTDD | | | Rel-8 GERAN |
| 8.6.3.3 | Logged MDT / CDMA2000 Inter-RAT measurement, logging and reporting | Rel-10 | C165 | UEs supporting E-UTRA and HRPD and logged measurements in RRC IDLE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.3.4 | Logged MDT / Logging and reporting / Reporting at UTRAN Inter-RAT handover / PLMN list | Rel-11 | C138 | UEs supporting E-UTRA and UTRA and logged measurements in RRC_IDLE and inter-RAT PS handover to E-UTRA from UTRA and EUTRA Feature Group Indicator 2 | pc_eFDD | | | Rel-8 UTRA FDD |
| | | | | | pc eTDD | | | Rel-9 UTRA TDD |
| 8.6.4.1 | Radio Link Failure logging / Reporting of Intra- frequency measurements | Rel-10 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.4.2 | Radio Link Failure logging / Reporting of Inter- frequency measurements | Rel-10 | C10F | UEs supporting E-UTRA and Feature Group Indicator 25 | pc_eFDD | | | |
| | | | C10T | | pc_eTDD | | | |
| 8.6.4.3 | Radio Link Failure logging / Reporting at RRC connection establishment and reestablishment | Rel-10 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.4.4 | Radio Link Failure logging / Reporting at E-UTRA handover | Rel-10 | C184 | UEs supporting E-UTRA and more than 1 FDD or TDD E-UTRA band | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.4.5 | Radio Link Failure logging / Reporting of ECGI of the PCell | Rel-10 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Executions Image: Constraint of the second sec | Release other RAT |
| 8.6.4.6 | Void | | | | | | | |
| 8.6.4.7 | Radio Link Failure logging / Location information | Rel-10 | C147 | UEs supporting E-UTRA and standalone GNSS receiver to provide detailed location information | pc_eTDD | | | |
| | | | | | pc_eFDD | | | |
| 8.6.4.8 | Radio Link Failure logging / Logging and reporting / Reporting at RRC connection establishment / PLMN list | Rel-11 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.4.9 | Radio Link Failure logging / Logging and reporting / Reporting at intra LTE handover / PLMN list | Rel-11 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.4.10 | Radio Link Failure logging / Logging and reporting / Reporting at RRC connection re- establishment / PLMN list | Rel-11 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.5.1 | Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover | Rel-10 | C146 | UEs supporting E-UTRA and UTRA and inter- RAT PS handover to E-UTRA from UTRA | pc_eFDD | | | Rel-8 UTRA FDD |
| | Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover / PLMN list | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.6.5.1a | | Rel-11 | C205 | UEs supporting E-UTRA and UTRA and inter- RAT PS handover to E-UTRA from UTRA and Radio Link Failure Report for inter-RAT MRO | pc_eFDD | | | Rel-8 UTRA FDD |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.6.5.2 | Radio Link Failure logging / Reporting at GERAN Inter-RAT handover | Rel-10 | C148F | UEs supporting E-UTRA and Feature Group Indicator 23 | pc_eFDD | | | Rel-8 GERAN |
| | | | C148T | | pc_eTDD | | | Rel-8 GERAN |
| 8.6.5.3 | Radio Link Failure logging / Reporting CDMA2000 neighbour cell information | Rel-10 | C06 | UEs supporting E-UTRA and HRPD | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.5.4 | Radio Link Failure logging / Reporting of selected UTRA cell | Rel-11 | C37 | UEs supporting E-UTRA and UTRA and inter- RAT PS handover to E-UTRA from UTRA and EUTRA Feature Group Indicator 2 | pc_eFDD | | | Rel-8 UTRA FDD |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.6.6.1 | Handover Failure logging / Reporting of Intra- frequency measurements | Rel-10 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.6.2 | Handover Failure logging / Reporting of Inter- frequency measurements | Rel-10 | C21F | UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 | pc_eFDD | | | |
| | | | C21T | | pc_eTDD | | | |
| 8.6.6.3 | Void | | | | | | | |
| 8.6.6.4 | Handover Failure logging / Location information | Rel-10 | C147 | UEs supporting E-UTRA and standalone GNSS receiver to provide detailed location information | pc_eTDD | | | |
| <u> </u> | | | | | pc_eFDD | | | |
| 8.6.6.5 | Handover Failure logging / Logging and reporting / Reporting at RRC connection establishment / PLMN list | Rel-11 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.6.6 | Handover Failure logging / Logging and reporting | Rel-11 | C21F | UEs supporting E-UTRA and Feature Group | pc_eFDD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
|---------|---|---------|-------------------|---|---------------------------|---------------|----------------------------|--|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | / Reporting at intra LTE handover / PLMN list | | | Indicator 13 and Feature Group Indicator 25 | | | | |
| | | | C21T |] | pc_eTDD | | | |
| 3.6.6.7 | Handover Failure logging / Logging and reporting / Reporting at RRC connection re-establishment / PLMN list | Rel-11 | C10F | UEs supporting E-UTRA and Feature Group Indicator 25 | pc_eFDD | | | |
| | | | C10T | | pc_eTDD | | | |
| 3.6.7.1 | Handover Failure logging / Reporting of UTRAN Inter-RAT measurements | Rel-10 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.7.2 | Handover Failure logging / Reporting of GERAN Inter-RAT measurements | Rel-10 | C90F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 23 | pc_eFDD | | | |
| | | | C90T | | pc_eTDD | | | Rel-8 GERAN |
| 8.6.7.3 | Handover Failure logging / Reporting of CDMA2000 Inter-RAT measurements | Rel-10 | C06 | UEs supporting E-UTRA and HRPD | pc_eFDD | | | Rel-8 UTRA FDD Rel-9 UTRA TDD Rel-8 GERAN Rel-8 GERAN Rel-8 UTRA FDD Rel-9 UTRA TDD Rel-9 UTRA TDD |
| | | | | | pc_eTDD | | | |
| 8.6.7.4 | Handover Failure logging / Reporting at UTRAN Inter-RAT handover / PLMN list | Rel-11 | C37 | UEs supporting E-UTRA and UTRA and inter- RAT PS handover to E-UTRA from UTRA and EUTRA Feature Group Indicator 2 | pc_eFDD | | | Rel-8 UTRA FDD |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.6.8.1 | Logging and reporting / T300 expiry | Rel-11 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.8.2 | Connection Establishment Failure logging / Logging and reporting / Reporting at intra-LTE handover | Rel-11 | C21F | UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 | pc_eFDD | | | |
| | | | C21T | | pc_eTDD | | | |
| 8.6.8.3 | Connection Establishment Failure logging / Logging and reporting / Reporting at RRC connection re-establishment | Rel-11 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.8.4 | Connection Establishment Failure logging / Logging and reporting / Location Information | Rel-11 | C147 | UEs supporting E-UTRA and standalone GNSS receiver to provide detailed location information | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.8.5 | Connection Establishment Failure logging / Logging and reporting / Reporting of Intra- frequency measurements | Rel-11 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.8.6 | Connection Establishment Failure logging / Logging and reporting / Reporting of Inter- frequency measurements | Rel-11 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc eTDD | 1 | 1 | |
| 8.6.9.1 | Connection Establishment Failure logging / Logging and reporting / Reporting at UTRAN Inter-RAT handover | Rel-11 | C37 | UEs supporting E-UTRA and UTRA and inter- RAT PS handover to E-UTRA from UTRA and EUTRA Feature Group Indicator 2 | pc_eFDD | | | Rel-8 UTRA FDD |
| | Inter-RAT handover | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.6.9.2 | Connection Establishment Failure logging / Logging and reporting / Reporting of UTRAN Inter-RAT measurements | Rel-11 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | Rel-8 UTRA FDD |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
|----------|---|---------|-------------------|--|---------------------------|---------------|----------------------------|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.6.9.3 | Connection Establishment Failure logging / Logging and reporting / Reporting of GERAN Inter-RAT measurements | Rel-11 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | Rel-8 GERAN |
| | | | | | pc_eTDD | | | Rel-8 GERAN |
| 8.6.9.4 | Connection Establishment Failure logging / Logging and reporting / Reporting of CDMA2000 Inter-RAT measurements | Rel-11 | C06 | UEs supporting E-UTRA and HRPD | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.6.10.1 | Inter-RAT Immediate MDT / Reporting / Location information / Event B2 | Rel-11 | C180 | UEs supporting E-UTRA and UTRA and standalone GNSS receiver to provide detailed location information | pc_eFDD | | | Rel-8 UTRA FDD |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 8.6.11.1 | RACH Optimisation | Rel-11 | C181 | UEs supporting E-UTRA and delivery of rachReport upon request from the network | pc_eFDD | Note 7 | | |
| l | | | | | pc_eTDD | | | |
| 8.7.1 | Inter-RAT / ANR measurement, logging and reporting / E-UTRAN cell | Rel-10 | C145 | UEs supporting E-UTRA and supporting UTRAN ANR | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.8.1.4 | Successful Acceptance/Rejection of Direct Communication announcements | Rel-12 | C238 | UEs supporting E-UTRA and ProSe direct communication | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.8.1.5 | Successful monitoring for SyncRef UE/Direct Communication | Rel-12 | C238 | UEs supporting E-UTRA and ProSe direct communication | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.8.2.1 | Successful Reception and Transmission/ProSe Direct Discovery | Rel-12 | C239 | UEs supporting E-UTRA and supporting ProSe direct discovery announcing and monitoring | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.8.2.3 | RRC Reconfiguration/Direct Discovery | Rel-12 | C226 | UEs supporting E-UTRA and supporting ProSe direct discovery announcing | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.8.2.4 | Successful Acceptance/Rejection of Direct Discovery announcements | Rel-12 | C240 | UEs supporting E-UTRA and supporting ProSe direct discovery monitoring | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 8.8.2.5 | Successful monitoring for SyncRef UE/Direct Discovery | Rel-12 | C243 | UEs supporting E-UTRA and supporting ProSe direct discovery monitoring and SLSS trasnmission | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9 | EPS MOBILITY MANAGEMENT PROCEDURE | | | | | | | |
| 9.1.1.1 | Void | | | | | | | |
| 9.1.1.2 | Void | | | | | | | |
| 9.1.2.1 | Void | | | | | | | |
| 9.1.2.2 | Void | | | | | | | |
| 9.1.2.3 | Authentication not accepted by the network, GUTI used, authentication reject and re-authentication | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.1.2.4 | Authentication not accepted by the UE / MAC | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |

| Clause | TC Title | Release | ase Applicabili ty | | Additional Information | | | |
|------------|--|---------|-----------------------|---|---------------------------|---------------|---|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | code failure | | | | pc_eTDD | | | |
| 9.1.2.5 | Authentication not accepted by the UE / SQN failure | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.1.2.6 | Abnormal cases / Network failing the authentication check | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.1.2.7 | Authentication not accepted by the UE/ non-EPS authentication unacceptable | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.1.3.1 | NAS security mode command accepted by the UE | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.1.3.2 | NAS security mode command not accepted by the UE | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | Rel-9 | | | pc_eTDD | | | |
| 9.1.3.3 | No emergency bearer service / NAS security mode command with EIA0 not accepted by the UE | Rel-9 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.1.4.2 | Identification procedure / IMEI / IMEISV requested | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | quested | | | | pc eTDD | | | |
| 9.1.5.1 | EMM information procedure | Rel-8 | C51 | UEs supporting E-UTRA and supporting the EMM information message | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.1.5.2 | EMM information procedure not supported by the UE | Rel-8 | C46 | UEs supporting E-UTRA and does not support the EMM information message | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.1 | Attach / Success / Valid GUTI | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.1a | Attach / Success / Last visited TAI, TAI list and equivalent PLMN list handling | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Either TC 9.2.1.1.1a or TC 9.2.1.1.1b shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.1b | Attach / Success / Last visited TAI, TAI list and equivalent PLMN list handling / Single Frequency operation | Rel-8 | R | UEs supporting E-UTRA This test is 'cells on single frequency only' equivalent of TC 9.2.1.1.1a | pc_eFDD | | Either TC 9.2.1.1.1a or TC 9.2.1.1.1b shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | 1` ´ | |
| 9.2.1.1.2 | Attach / Success / With IMSI, GUTI reallocation | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | | |
| | | 1 | | | pc_eTDD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 9.2.1.1.2a | Attach Procedure / AttachWithIMSI configured / Selected PLMN is neither the registered PLMN nor in the list of equivalent PLMNs / Success | Rel-10 | C173 | UEs supporting E-UTRA and AttachWithIMSI | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.3 | Attach Procedure / Success / Request for obtaining the IPv6 address of the home agent | Rel-8 | C68 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 and being configured to request the IPv6 address of the Home Agent during Attach procedure | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.4 | Attach Procedure / Success / Request for obtaining the IPv4 address of the home agent | Rel-8 | C69 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 and being configured to request the IPv4 address of the Home Agent during Attach procedure | pc_eFDD | | | |
| | | | | | pc eTDD | | | |
| 9.2.1.1.5 | Void | | | | | | | |
| 9.2.1.1.7 | Attach / Success / List of equivalent PLMNs in the ATTACH ACCEPT message | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | Either TC 9.2.1.1.7 or TC 9.2.1.1.7a shall be executed. (Note 4) | |
| | | | | | pc eTDD | | | |
| 9.2.1.1.7a | Attach / Success / List of equivalent PLMNs in the ATTACH ACCEPT message / Single Frequency operation | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | Either TC 9.2.1.1.7 or TC 9.2.1.1.7a shall be executed. (Note 4) | |
| | | | | | pc eTDD | | l í | |
| 9.2.1.1.7b | Attach / Success / native GUMMEI | Rel-10 | C04 | UEs supporting E-UTRA and EPS attach (with | pc_eFDD | | | |
| | | | | or without pre-configuration) | pc_eTDD | | | |
| 9.2.1.1.7c | Attach / Success / PSM | Rel-12 | C247 | UEs supporting E-UTRA and EPS attach (with | pc_eFDD | | | |
| | | | | or without pre-configuration) and Power Saving | pc_eTDD | | | |
| | | | | Mode | - | | | |
| 9.2.1.1.9 | Attach / Rejected / IMSI invalid | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.10 | Attach / Rejected / Illegal ME | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.11 | Attach / Rejected / EPS services and non-EPS services not allowed | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested, px_SinglePLM N_Tested | 1 Execution (Note 1) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.1.1.12 | Attach / Rejected / EPS services not allowed | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb _Tested, px_SinglePLM | 1 Execution (Note 1) | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | | N Tested | | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.1.1.13 | Attach / Rejected / PLMN not allowed | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | Either TC 9.2.1.1.13 or TC 9.2.1.1.13a shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.13a | Attach / Rejected / PLMN not allowed / Single Frequency operation | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) This test is 'cells on single frequency only' equivalent of TC 9.2.1.1.13 | pc_eFDD | | Either TC 9.2.1.1.13 or TC 9.2.1.1.13a shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | , | |
| 9.2.1.1.14 | Attach / Rejected / Tracking area not allowed | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.15 | Attach / Rejected / Roaming not allowed in this tracking area | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | Either TC 9.2.1.1.15 or TC 9.2.1.1.15a shall be executed. (Note 4) | |
| | | | | | pc eTDD | | (/ | |
| 9.2.1.1.15a | Attach / Rejected / Roaming not allowed in this tracking area / Single Frequency operation | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) This test is 'cells on single frequency only' equivalent of TC 9.2.1.1.15 | pc_eFDD | | Either TC 9.2.1.1.15 or TC 9.2.1.1.15a shall be executed. (Note 4) | |
| | | 5.1.0 | 0.01 | | pc_eTDD | | 5.00 | |
| 9.2.1.1.16 | Attach / Rejected / EPS services not allowed in this PLMN | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | Either TC 9.2.1.1.16 or TC 9.2.1.1.16a shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.16a | Attach / Rejected / EPS services not allowed in this PLMN / Single Frequency operation | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) This test is 'cells on single frequency only' equivalent of TC 9.2.1.1.16 | pc_eFDD | | Either TC 9.2.1.1.16 or TC 9.2.1.1.16a shall be executed. (Note 4) | |
| | | | | | pc_eTDD | | ,, , | |
| 9.2.1.1.17 | Attach / Rejected / No suitable cells in tracking area | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.18 | Attach / Rejected / Not authorized for this CSG | Rel-8 | C47 | UEs supporting E-UTRA and allowed CSG list and EPS attach (with or without pre- | pc_eFDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | configuration) | | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.19 | Attach / Abnormal case / Failure due to non integrity protection | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
|).2.1.1.20 | Attach / Abnormal case / Access barred because of access class barring or NAS signalling | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | | |
| | connection establishment rejected by the network | | | | pc_eTDD | | | |
| 9.2.1.1.21 | Void | | | | | | | |
| 9.2.1.1.22 | Attach / Abnormal case / Unsuccessful attach after 5 attempts | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 0.2.1.1.23 | Attach / Abnormal case / Repeated rejects for network failures | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without configuration) | pc_eFDD | | | |
| | | | | , , , , , , , , , , , , , , , , , , , | pc_eTDD | | | |
|).2.1.1.24 | Attach / Abnormal case / Change of cell into a new tracking area | Rel-8 | R | UEs supporting E-UTRA | | | | |
| | | | | | pc eTDD | | | |
| 9.2.1.1.25 | Attach / Abnormal case / Mobile originated detach required | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.1.26 | Attach / Abnormal case / Detach procedure collision | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
|).2.1.1.27 | Attach / Abnormal case / Network reject with | Rel-10 | C178 | UEs supporting E-UTRA and LAP | pc_eFDD | | | |
| | Extended Wait Timer | | | | pc_eTDD | _ | | |
|).2.1.1.27a | Attach Procedure / EAB broadcast handling / | Rel-11 | C194 | UEs supporting E-UTRA and EAB | pc_eFDD | | | |
| | ExtendedAccessBarring configured in the UE | | | | pc_eTDD | _ | | |
| 9.2.1.1.28 | Attach / Success / IMS | Rel-8 | C210 | UEs supporting E-UTRA and VoLTE in GSMA | pc_eFDD | | | |
| | | | | PRD IR.92: 'IMS Profile for Voice and SMS' and | | | | |
| | | | | UE Configured with IMS APN as default APN or to provide IMS APN. | | | | |
|).2.1.1.28a | Attach / Success / IMS / Second PDN | Rel-8 | C211 | UEs supporting E-UTRA and VoLTE in GSMA | pc_eFDD | | | |
| | | | | PRD IR.92: 'IMS Profile for Voice and SMS' and UE Configured to provide IMS APN as the second PDN connection. | pc_eTDD | | | |
| .2.1.1.29 | Attach / Rejected / IMEI not accepted | Rel-9 | C71 | UEs supporting E-UTRA and IMS emergency call | pc_eFDD | | | |
| | | | | | pc eTDD | | | |
| 9.2.1.1.30 | Attach / Abnormal case / ESM failure | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | 1 |
| 9.2.1.2.1 | Combined attach / Success / EPS and non-EPS services | Rel-8 | C02 | UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) | pc_eFDD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_eTDD | | | |
| 9.2.1.2.1b | Combined attach procedure / Success / SMS only | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and combined EPS/IMSI attach | pc_eFDD, pc_UTRA, pc_GERAN pc_eTDD, | px_RATComb_ Tested | 1 or 2 Executions (Note 2 AND Note 6) | |
| | | | | | pc_UTRA, pc_GERAN | | | |
| 9.2.1.2.1c | Combined attach procedure / Success / EPS and CS Fallback not preferred | Rel-8 | C86 | UEs supporting E-UTRA and UTRA and combined EPS/IMSI attach (with or without pre- configuration) and CS fallback and configured to CS/PS mode 1 (voice centric) | pc_eFDD | | | |
| I | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 9.2.1.2.1d | Combined attach procedure / Success / EPS and CS Fallback not preferred/data centric UE | Rel-8 | C87 | UEs supporting E-UTRA and UTRA and combined EPS/IMSI attach (with or without pre- configuration) and CS fallback (and implicitly SMSoverSGs) and configured to CS/PS mode 2 (data centric) | pc_eFDD | | | |
| I | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 9.2.1.2.2 | Combined attach / Success / EPS services only / IMSI unknown in HSS | Rel-8 | C02 | UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 9.2.1.2.3 | Combined attach / Success / EPS services only / MSC temporarily not reachable | Rel-8 | C02 | UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.2.4 | Combined attach / Success / EPS services only / CS domain not available | Rel-8 | C125 | UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and (CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 9.2.1.2.4a | Successful combined attach procedure / EPS | Rel-11 | C02 | UEs supporting E-UTRA and combined | pc_eFDD | | | |
| | service only / Congestion | | | EPS/INSI attach (with or without pre- configuration) | pc_eTDD | | | |
| 9.2.1.2.5 | Combined attach / Rejected / IMSI invalid | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.1.2.6 | Combined attach / Rejected / Illegal ME | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 9.2.1.2.7 | Combined attach / Rejected / EPS services and non-EPS services not allowed | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.1.2.8 | Combined attach / Rejected / EPS services not allowed | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | |
| 9.2.1.2.9 | Combined attach / Rejected / PLMN not allowed | Rel-8 | C128 | UEs supporting E-UTRA and UTRAN or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.1.2.10 | Combined attach / Rejected / Tracking area not allowed | Rel-8 | C02 | UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.2.11 | Combined attach / Rejected / Roaming not allowed in this tracking area | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.1.2.12 | Combined attach / Rejected / EPS services not allowed in this PLMN | Rel-8 | C02 | UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.1.2.13 | Combined attach / Rejected / No suitable cells in tracking area | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.1.2.14 | Combined attach / rejected / Not authorized for this CSG | Rel-8 | C123 | UEs supporting E-UTRA and allowed CSG list and combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |

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| | | | ty | | Information | | Executions RAT 1 Execution (Note 2) | |
| | | | Condition | Comment | Specific ICS | Specific IXIT | | Release other RAT |
| 9.2.1.2.15 | Combined attach / Abnormal case / Handling of the EPS attach attempt counter | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.2.1.1 | UE initiated detach / UE switched off | Rel-8 | C53 | UEs supporting E-UTRA and switch on/off | pc_eFDD pc_eTDD | | | |
| 9.2.2.1.2 | UE initiated detach / USIM removed from the UE | Rel-8 | C03 | UEs supporting E-UTRA and USIM removal without power down | pc_eFDD, pc_USIM_Remov al pc_eTDD, pc_USIM_Remov | | | |
| 9.2.2.1.3 | UE initiated detach / EPS capability of the UE is disabled | Rel-8 | C153 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) and disabling the EPS services | al pc_eFDD pc_UTRA, pc_GERAN pc_EPS_Disable, pc_Dynamic_GE RAN_Rel_downg rade pc_eTDD pc_UTRA, pc_GERAN | px_RATComb_ Tested | , | |
| 9.2.2.1.4 | UE initiated detach / detach for non-EPS services | Rel-8 | C106 | UEs supporting E-UTRA and detach for non- EPS services, and combined EPS/IMSI attach | pc_EPS_Disable pc_eFDD pc_IMSI_Detach pc_eTDD pc_IMSI_Detach | | | |
| 9.2.2.1.6 | UE initiated detach / Abnormal case / Local detach after 5 attempts due to no network response | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| 9.2.2.1.7 | UE initiated detach / Abnormal case / Detach procedure collision | Rel-8 | R | UEs supporting E-UTRA | pc_eTDD pc_eFDD, pc_Re_Attach_Af terDetachColl pc_eTDD, pc_Re_Attach_Af terDetachColl | | | |
| 9.2.2.1.8 | UE initiated detach / Abnormal case / Detach and EMM common procedure collision | Rel-8 | C53 | UEs supporting E-UTRA and switch on/off | pc_eTDD | | | |
| 9.2.2.1.9 | UE initiated detach / Abnormal case / Change of cell into a new tracking area | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| 9.2.2.1.10 | UE initiated detach / Mapped security context | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eTDD pc_eFDD pc_eTDD | | | Rel-9 UTRA TDD |
| 9.2.2.2.1 | NW initiated detach / Re-attach required | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_eTDD | | | |
| 9.2.2.2.2 | NW initiated detach / IMSI detach | Rel-8 | C02 | UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.2.2.14 | NW initiated detach / Abnormal case / EMM cause not included | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.3.1.1 | Normal tracking area update / Accepted | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.3.1.2 | Void | | | | | | | |
| 9.2.3.1.4 | Normal tracking area update / List of equivalent PLMNs in the TRACKING AREA UPDATE ACCEPT message | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| 9.2.3.1.5 | _ | | | | pc_eTDD | | | |
| | Periodic tracking area update / Accepted | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.3.1.5a | Periodic tracking area update / Accepted / Per- device timer | Rel-10 | C174 | UEs supporting E-UTRA and T3412 Extended IE | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.3.1.6 | Normal tracking area update / UE with ISR active moves to E-UTRAN | Rel-8 | C27 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, ISR | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.1.8 | UE receives an indication that the RRC connection was released with cause "load balancing TAU required" | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | 5 | | | | pc_eTDD | | | |
| 9.2.3.1.8a | Normal tracking area update / low priority | Rel-11 | C195 | UEs supporting E-UTRA and LAP and LAP | pc_eFDD | | | |
| | override | | | override | pc_eTDD | | | |
| 9.2.3.1.8b | Normal tracking area update / EAB broadcast | Rel-11 | C197 | UEs supporting E-UTRA and EAB and EAB | pc_eFDD | | | |
| | handling / ExtendedAccessBarring configured in the UE / ExtendedAccessBarring and Override_ExtendedAccessBarring configured in the UE | | | override | pc_eTDD | | | |
| 9.2.3.1.9 | Normal tracking area update / Correct handling of CSG list | Rel-8 | C143 | UEs supporting E-UTRA and allowed CSG list and manual CSG selection and EPS attach | pc_eFDD pc_eTDD | | | |
| 9.2.3.1.9a | Normal tracking area update / NAS signalling connection recovery | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| 9.2.3.1.10 | Normal tracking area undate / Rejected / MSI | Dol 9 | C04 | UEs supporting E-UTRA and EPS attach (with | pc_eTDD pc_eFDD, | px_RATComb_ | 1 Execution (Nate | |
| 9.2.3.1.10 | Normal tracking area update / Rejected / IMSI invalid | Rel-8 | C04 | or without pre-configuration) | pc_eFDD, pc_UTRA, | Tested, | 1 Execution (Note 1) | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_GERAN | px_SinglePLM N_Tested | | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.1.11 | Normal tracking area update / Rejected / Illegal ME | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 1) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.1.12 | Normal tracking area update / Rejected / EPS service not allowed | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 1) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.1.13 | Normal tracking area update / Rejected / UE identity cannot be derived by the network | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.3.1.14 | Normal tracking area update / Rejected / UE implicitly detached | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD | | | |
| 0 0 0 4 45 | Newsel to dia a subject of Deiested / DIAM | Dalla | 004 | | pc_eTDD | | A Francisco (Natio | |
| 9.2.3.1.15 | Normal tracking area update / Rejected / PLMN not allowed | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 1) Either TC 9.2.3.1.15 or TC 9.2.3.1.15a shall be executed. (Note 4) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.1.15a | Normal tracking area update / Rejected / PLMN not allowed / Single Frequency operation | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) This test is 'cells on single frequency only' equivalent of TC 9.2.3.1.15 | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 1) Either TC 9.2.3.1.15 or TC 9.2.3.1.15a shall be executed. (Note 4) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.1.16 | Normal tracking area update / Rejected / Tracking area not allowed | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eTDD | | | |
| 9.2.3.1.17 | Normal tracking area update / Rejected / | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with | pc_eFDD, | px_RATComb_ | 1 Execution (Note | |
| 0.2.0.1.17 | Roaming not allowed in this tracking area | NOF0 | | or without pre-configuration) | pc_er DD, pc_UTRA, | Tested, | 1) | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_GERAN | px_SinglePLM N_Tested | | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.1.18 | Normal tracking area update / Rejected / EPS services not allowed in this PLMN | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 1) Either TC 9.2.3.1.18 or TC 9.2.3.1.18a shall be executed. (Note 4) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| | Normal tracking area update / Rejected / EPS services not allowed in this PLMN / Single Frequency operation | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) This test is 'cells on single frequency only' equivalent of TC 9.2.3.1.18 | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 1) Either TC 9.2.3.1.18 or TC 9.2.3.1.18a shall be executed. (Note 4) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.1.19 | Normal tracking area update / Rejected / No suitable cells in tracking area | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without pre-configuration) | pc_eTDD | | | |
| 9.2.3.1.20 | Normal tracking area update / Rejected / Not authorized for this CSG | Rel-8 | C47 | UEs supporting E-UTRA and EPS attach (with or without configuration) and allowed CSG list | pc_eFDD | | | |
| 0.0.0.4.00 | | D 1 40 | | | pc_eTDD | | | |
| 9.2.3.1.20a | Normal tracking area update / Rejected / Congestion | Rel-10 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | - | | pc_eTDD | | | |
| | Normal tracking area update / Abnormal case / access barred due to access class control or NAS signalling connection establishment rejected by the network | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.3.1.23 | Normal tracking area update / Abnormal case / Success after several attempts due to no network response / TA belongs to TAI list and status is UPDATED | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc eTDD | | 1 | |
| 9.2.3.1.25 | Normal tracking area update / Abnormal case / Failure after 5 attempts due to no network response | Rel-8 | C04 | UEs supporting E-UTRA and EPS attach (with or without configuration) | pc_eFDD | | | |
| | | | | | pc eTDD | | | |

| TRACKING AREA UPDATE RELEGT or without configuration) C | Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| TRACKING AREA UPDATE RELET ar without configuration) c.artD2 c.artD2 c.artD2 82.3.1.28 Normal tracking area update / Abnormal case / Change of cell into a net vaching area update/ successful Rel-8 R UEs supporting E-UTRA pc_aFDD c.artD0 82.3.1.28 Normal tracking area update / Abnormal case / confision Rel-8 R UEs supporting E-UTRA pc_aFDD c.artD0 82.3.2.21 Combined tracking area update / Successful Rel-8 C121 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) pc_aFDD c 82.3.2.10 Combined tracking area update / Successful / Check of last visited TAI and handling of TAI list, UI and TMSI Rel-8 C121 UEs supporting E-UTRA and orthined EPS/IMSI attach (with or without pre- configuration) and UTRA attach pc_aFDD c c 82.3.2.10 Combined tracking area update / Successful / SMS only Rel-8 C128 UEs supporting E-UTRA and UTRA or/and E- UTRA and GENAN, and combined EPS/IMSI attach pc_aFDD c Rel-9 UTRA TDD 82.3.2.10 Combined tracking area update / Successful / SMS only Rel-8 C47 UEs supporting E-UTRA and UTRA or/and E- UTRA and GENAN, and combined EPS/IMSI attach (with or without pre- configuration) and CS fallback (and inplicity SMSperSGs) and configuration) pc_aFDD c Rel-9 UTRA TDD 82.3.2.10 Combined tracking area up | | | | Condition | Comment | Specific ICS | Specific IXIT | | |
| 22.3.1.27 Normal tracking area update / Abnormal case / Tracking area update / Successful Rel-8 R UEs supporting E-UTRA pc. ePDD Image: Composition of tracking area update / Successful Rel-8 Rel-8 Rel-8 UEs supporting E-UTRA pc. ePDD Image: Composition of tracking area update / Successful Rel-8 Rel-8 C02 UEs supporting E-UTRA and combined tracking area update / Successful / EPS/INSI attach (with or without preconfiguration) pc. ePDD Image: Composition of tracking area update / Successful / EPS/INSI attach (with or without preconfiguration) pc. ePDD Image: Composition of tracking area update / Successful / EPS/INSI attach (with or without preconfiguration) pc. ePDD Image: Composition of tracking area update / Successful / EPS/INSI attach (with or without preconfiguration) pc. ePDD pc. ePDD pc. ePDD Rel-9 UTRA TDD 22.3.2.10 Combined tracking area update / Successful / Successful / Successful / Successful / EPS/INSI attach (with or without preconfiguration) and CIS fallback not preferred Rel-8 C128 | 9.2.3.1.26 | Normal tracking area update / Abnormal case / TRACKING AREA UPDATE REJECT | Rel-8 | C04 | | pc_eFDD | | | |
| Change of cellino a new tracking area Rel-8 R UEs supporting E-UTRA pc_eFDD | | | | | | | | | |
| Normal tracking area update / Abnormal case / Tracking area update / Abnormal case / Tracking area update / Successful Rel-8 R UEs supporting E-UTRA (UEs upporting E-UTRA and combined EPS/MSI attach (with or without pre- configuration) PC_eFDD PC_eFDD 92.3.2.1 Combined tracking area update / Successful Rel-8 C02 UEs supporting E-UTRA and combined EPS/MSI attach (with or without pre- configuration) and UTRA pC_eFDD PC_eFDD PC_eFDD 92.3.2.1 Combined tracking area update / Successful / LAI and TMSI Rel-8 C121 UEs supporting E-UTRA and combined EPS/MSI attach (with or without pre- configuration) and UTRA pC_eFDD PC_eFDD PC_eFDD 92.3.2.1: Combined tracking area update / successful / EPS/MSI attach (with or without pre- configuration) and UTRA or/and E- UTRA and GERAN, and combined EPS/MSI attach PC_eFDD PC_eFD | 9.2.3.1.27 | | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| Tracking area updating and detach procedure olision Rel-8 C02 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and UTRA. pc. aFDD Pc. aFDD Pc. aFDD 92.3.2.1 a Combined tracking area update / Successful / LAI and TMSI Rel-8 C121 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and UTRA. pc. aFDD Pc. aFDD Pc. aFDD 92.3.2.1 b Combined tracking area update / successful / LAI and TMSI Rel-8 C121 UEs supporting E-UTRA and OTRA or/and E. enditional GERAN, and combined EPS/IMSI attach (with or without pre- configuration) and UTRA. pc. aFDD pc. aFDD Pc. aFDD 92.3.2.1 b Combined tracking area update / successful / SMS only. Rel-8 C128 UEs supporting E-UTRA and UTRA and ormbined EPS/IMSI attach pc. aFDD, pc. aFDD pc. aFDD Rel-9 UTRA TDD 92.3.2.1 c Combined tracking area update / Success / US Rel-8 C27 UEs supporting E-UTRA and UTRA and combined EPS/IMSI attach (with or without pre- configuration) and CS fallback (and inplicitly SMSoverSGs) and configuration to CS/PS Mode 2 (data certific) pc. aFDD pc. aFDD Rel-9 UTRA TDD 92.3.2.2.2 Combined tracking area update / Successful for EPS services only / MSC temporarily not reachable Rel-8 C128 UEs supporting E-UTRA and OTRA and OTRA and OTRA UTR | | | | | | pc_eTDD | | | |
| 9.2.3.2.1 Combined tracking area update / Successful Rei-8 C02 UE supporting E-UTRA and combined EPS/IMSI statach (with or without pre- configuration) pc_eFDD Image: Control of Combined tracking area update / Successful / LAI and TMSI Rei-8 C121 UE supporting E-UTRA and combined EPS/IMSI statach (with or without pre- configuration) and UTRA pc_eFDD Image: Combined tracking area update / Successful / LAI and TMSI Rei-9 UTRA TDD 9.2.3.2.1b Combined tracking area update / Successful / SMS only Rei-8 C128 UEs supporting E-UTRA and UTRA orland E- DTRA and GERAN, and combined EPS/IMSI attach pc_eFDD pc_eFDD Note 6) 9.2.3.2.1c Combined tracking area update / Success / CS Rei-8 C47 UEs supporting E-UTRA and UTRA orland E- combined EPS/IMSI attach (with or without pre- configuration) and CSPS Mode 2 (data centric) pc_eFDD pc_eFDD Rei-9 UTRA TDD 9.2.3.2.1c Combined tracking area update / Success/u CS Rei-8 C02 UEs supporting E-UTRA and UTRA orland combined EPS/IMSI attach (with or without pre- configuration) and CSPS Mode 2 (data centric) pc_eFDD Rei-9 UTRA TDD 9.2.3.2.3 Combined tracking area update / Successful for reachable Rei-8 C128 UEs supporting E-UTRA and UTRA ordined EPS/IMSI attach (with or without pre- configuration) pc_eFDD Rei-9 UTRA TDD Rei-9 UTRA TDD | 9.2.3.1.28 | Tracking area updating and detach procedure | Rel-8 | R | UEs supporting E-UTRA | | | | |
| B2.3.2.1a Combined tracking area update / Successful / Check of last visited TAI and handling of TAI list, And TMSI Rel-8 C121 UE supporting E-UTRA and combined EPS/MSI attach (with or without pre- configuration) and UTRA pc_eFDD PC 3.2.3.2.1b Combined tracking area update / successful / SMS only Rel-8 C128 UEs supporting E-UTRA and Combined EPS/MSI attach pc_eFDD PC 3.2.3.2.1b Combined tracking area update / successful / SMS only Rel-8 C128 UEs supporting E-UTRA and UTRA or/and E- pc_eFDD pc_eFDD, pc_UTRA. PC 9.2.3.2.1c Combined tracking area update / Success / CS Rel-8 C67 UEs supporting E-UTRA and UTRA and ormbined ePS/MSI attach (with or without pre- configuration) and CS/PS Mode 2 (data centric) pc_eFDD Image: PD 9.2.3.2.2 Combined tracking area update / Successful for reachable Rel-8 C02 UEs supporting E-UTRA and combined ePS/MSI attach (with or without pre- configuration) and CS/PS Mode 2 (data centric) pc_eFDD pc_eFDD 9.2.3.2.3 Combined tracking area update / Successful for EPS services only / MSI unknown in HSS Rel-8 C128 UEs supporting E-UTRA and Combined ePS/MSI attach (with or without pre- configuration) pc_eFDD 9.2.3.2.4 Combined tracking area update / Successful for EPS services only / MSI unknown in HSS Rel-8 C128 UEs supporting E-UTRA and Combined ePS/MSI attach (with or without pre- configuration) pc_eF | | | | | | | | | |
| 2.2.2.1a Combined tracking area update / Successful / LAI and TMSI Rel-8 C121 UEs supporting E-UTRA and combined configuration) and UTRA pc_eFDD Rel-9 UTRA TDD 9.2.3.2.1b Combined tracking area update / successful / SMS only Rel-8 C128 UEs supporting E-UTRA and UTRA or/and E- tracking area update / successful / SMS only pc_eFDD pc_eFDD I or 2 Executions (Note 2 AND pc_eTDD 9.2.3.2.1c Combined tracking area update / Successful / SMS only Rel-8 C128 UEs supporting E-UTRA and UTRA or/and E- tracking area update / Successful / pc_eTDD pc_eFDD I or 2 Executions (Note 2 AND pc_eTDD 9.2.3.2.1c Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS Rel-8 C02 UEs supporting E-UTRA and ornbined combined EPS/IMSI attach (with or without pre- configuration) and CS faliback (and implicitly SMSovers GSa) and configured to CS/PS Mode 2 (data centric) pc_eTDD Rel-9 UTRA TDD 9.2.3.2.3 Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS Rel-8 C120 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and CS/PS Mode 2 or CS/PS pc_eTDD Rel-9 UTRA TDD 9.2.3.2.4 Combined tracking area update / Successful for reachable Rel-8 C120 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and CS | 9.2.3.2.1 | Combined tracking area update / Successful | Rel-8 | C02 | EPS/IMSI attach (with or without pre- | | | | |
| Check of last visitid TAI and handling of TAI list, LAI and TMSI EPS/IMSI attach (with or without pre- configuration) and UTRA pc_eTDD Rel-9 Rel-9 UTRA TDD 9.2.3.2.1b Combined tracking area update / successful / SMS only Rel-8 C128 UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and combined EPS/IMSI attach pc_eTDD pc_eTDD Rel-9 UTRA TDD 9.2.3.2.1c Combined tracking area update / Successful / Failback not preferred Rel-8 C87 UEs supporting E-UTRA and UTRA and combined EPS/IMSI attach (with or without pre- configuration) and CS failback (and implicitly SMSoverSGs) and configurate to CS/PS Mode 2 (data centric) pc_eFDD Rel-9 UTRA TDD 9.2.3.2.2 Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS Rel-8 C02 UEs supporting E-UTRA and Combined EPS/IMSI attach (with or without pre- configuration) and CS failback (and implicitly SMSoverSGs) and configuration pc_eFDD Rel-9 UTRA TDD 9.2.3.2.3 Combined tracking area update / Successful for reachable Rel-8 C02 UEs supporting E-UTRA and Combined EPS/IMSI attach (with or without pre- configuration) pc_eFDD Rel-9 UTRA TDD 9.2.3.2.4 Combined tracking area update / Successful for reachable Rel-8 C128 UEs supporting E-UTRA and Combined EPS/IMSI attach (with or without pre- configuration) pc_eFDD Rel-9 UTRA TDD | L | | | | | | | | |
| 9.2.3.2.1b Combined tracking area update / successful / SMS only Rel-8 C128 UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and combined EPS/IMSI attach pc. GETDD, pc. UTRA, attach pc. GERAN pc. GERAN Tor 2 Executions (Note 6) Rel-9 UTRA TDD 9.2.3.2.1c Combined tracking area update / Success / CS Fallback not preferred Rel-8 C87 UEs supporting E-UTRA and UTRA and utrA and combined EPS/IMSI attach (with or without pre- configuration) and CS fallback (and implicitly SMSoverSGs) and configured to CS/PS Mode 2 (data centric) pc. eFDD Rel-9 UTRA TDD 9.2.3.2.2 Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS Rel-8 C02 UEs supporting E-UTRA and UTRA or/and E- S/IMSI attach (with or without configuration) pc. eFDD Rel-9 UTRA TDD 9.2.3.2.3 Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS Rel-8 C128 UEs supporting E-UTRA and UTRA or/and E- S/IMSI attach (with or without configuration) pc. eFDD I or 2 Executions (Note 2 AND 9.2.3.2.4 Combined tracking area update / Successful for EPS services only / MSC temporarily not reachable Rel-8 C125 UEs supporting E-UTRA and Combined EPS/IMSI attach (with or without pre- configuration) pc. eFDD, pc. GERAN pc. GERAN 9.2.3.2.4 Combined tracking area update / Successful for EPS services only / CS domain not available </td <td>9.2.3.2.1a</td> <td>Check of last visited TAI and handling of TAI list,</td> <td>Rel-8</td> <td>C121</td> <td>EPS/IMSI attach (with or without pre-</td> <td></td> <td></td> <td></td> <td></td> | 9.2.3.2.1a | Check of last visited TAI and handling of TAI list, | Rel-8 | C121 | EPS/IMSI attach (with or without pre- | | | | |
| SMS only UTRA and GERAN, and combined EPS/IMSI attach pc. GERAN pc. eTDD, pc. UTRA, pc. GERAN pc. eTDD, pc. UTRA, pc. GERAN Note 6) Rel-9 UTRA TDD 9.2.3.2.1c Combined tracking area update / Success / CS Rel-8 C87 UEs supporting E-UTRA and UTRA and UTRA and combined EPS/IMSI attach (with or without preconfiguration) and CS/PS Mode 2 (data centric) pc. GERAN pc. GERAN pc. GERAN 9.2.3.2.2 Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS Rel-8 C02 UEs supporting E-UTRA and Combined EPS/IMSI attach (with or without onfiguration) and CS/PS Mode 2 (data centric) pc. GEDD pc. GEDD Rel-9 UTRA TDD 9.2.3.2.3 Combined tracking area update / Successful for reachable Rel-8 C128 UEs supporting E-UTRA and UTRA ordnal EPS/IMSI attach (with or without preconfiguration) pc. GEDD pc. GEDD pc. GEDD, pc. UTRA, pc. GERAN 9.2.3.2.4 Combined tracking area update / Successful for EPS services only / MSC temporarily not reachable Rel-8 C128 UEs supporting E-UTRA and Combined EPS/IMSI attach (with or without preconfiguration) pc. GEDD, pc. UTRA, pc. GERAN pc. GERAN Rel-9 UTRA TDD 9.2.3.2.4 Combined tracking area update / Successful for EPS services only / CS domain not available Rel-8 C125 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without preconfiguration) | | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| B.2.3.2.1c Combined tracking area update / Success / CS Fallback not preferred Rel-8 C87 UEs supporting E-UTRA and UTRA and combined EPS/IMSI attach (with or without pre- configuration) and CS fallback (and implicitly SMSoverSGs) and configured to CS/PS Mode 2 (data centric) pc_eFDD Rel-9 Rel-9 9.2.3.2.2 Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS Rel-8 C02 UEs supporting E-UTRA and orbined 2 (data centric) pc_eTDD Rel-9 Rel-9 9.2.3.2.3 Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS Rel-8 C128 UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) pc_eFDD Ior 2 Executions (Note 2 AND Note 6) 9.2.3.2.4 Combined tracking area update / successful for EPS services only / CS domain not available Rel-8 C125 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) pc_eFDD, pc_UTRA, pc_GERAN pc_eFDD, pc_UTRA, pc_GERAN 9.2.3.2.4 Combined tracking area update / successful for EPS services only / CS domain not available Rel-8 C125 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and (CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support pc_eFDD Rel-9 8.2.3.2.4a Combined tracking area update / Successful for EPS services only / Congestion Rel-11 C02 UEs supporting E-UTRA and combined EPS/IMSI at | 9.2.3.2.1b | | Rel-8 | C128 | UTRA and GERAN, and combined EPS/IMSI | pc_UTRA, pc_GERAN | | (Note 2 AND | |
| Fallback not preferred combined EPS/IMSI attach (with or without pre- combined CS falback (and implicitly SMSoverSGs) and Configured to CS/PS Mode 2 (data centric) pc_eTDD Rel-9 UTRA TDD 9.2.3.2.2 Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS Rel-8 C02 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without configuration) pc_eTDD Rel-9 UTRA TDD 9.2.3.2.3 Combined tracking area update / Successful for EPS services only / IMSC temporarily not reachable Rel-8 C128 UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) pc_eFDD, pc_UTRA, pc_GERAN px_RATComb_ Tested 1 or 2 Executions (Note 2 AND Pc_UTRA, pc_GERAN 9.2.3.2.4 Combined tracking area update / successful for EPS services only / CS domain not available Rel-8 C125 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and (CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support pc_eFDD Rel-9 UTRA TDD 9.2.3.2.4 Combined tracking area update / Successful for EPS services only / CS domain not available Rel-11 C02 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and (CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support pc_eFDD Image: PDD Image: PDD 9.2.3.2.4 Combined tracking area update / Successful for EPS services only / Congestion | | | | | | pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.2.2 Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS Rel-8 C02 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without configuration) pc_eFDD pc_eTDD pc_eTDD 9.2.3.2.3 Combined tracking area update / Successful for EPS services only / MSC temporarily not reachable Rel-8 C128 UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) pc_eTDD, pc_eTDD, pc_eTDD, pc_eTDD, pc_eTRA, pc_GERAN Note 2 AND Note 6) Rel-9 UTRA TDD 9.2.3.2.4 Combined tracking area update / successful for EPS services only / CS domain not available Rel-8 C125 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and (CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support pc_eFDD Rel-9 Rel-9 9.2.3.2.4 Combined tracking area update / Successful for EPS services only / CS domain not available Rel-11 C02 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and (CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support pc_eFDD pc_eFDD pc_eFDD pc_eTDD 9.2.3.2.4a Combined tracking area update / Successful for EPS services only / Congestion Rel-11 C02 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) pc_eFDD pc_eFDD pc_eTDD < | 9.2.3.2.1c | | Rel-8 | C87 | combined EPS/IMSI attach (with or without pre- configuration) and CS fallback (and implicitly SMSoverSGs) and configured to CS/PS Mode | | | | |
| EPS services only / IMSI unknown in HSS EPS/IMSI attach (with or without configuration) | | | | | | | | | Rel-9 UTRA TDD |
| 9.2.3.2.3 Combined tracking area update / Successful for reachable Rel-8 C128 UEs supporting E-UTRA and UTRA or/and E-UTRA and UTRA or/and E-UTRA, and CeRAN, and, combined EPS/IMSI attach (with or without pre-configuration) pc_eFDD, pc_UTRA, pc_GERAN pc_eFDD, pc_UTRA, pc_GERAN 9.2.3.2.4 Combined tracking area update / successful for EPS services only / CS domain not available Rel-8 C125 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) pc_eFDD, pc_UTRA, pc_GERAN pc_eFDD, pc_UTRA, pc_GERAN 9.2.3.2.4 Combined tracking area update / successful for EPS services only / CS domain not available Rel-8 C125 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and (CS/PS Mode 2 or CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support pc_eFDD pc_eFDD 9.2.3.2.4a Combined tracking area update / Successful for EPS/IMSI attach (with or without pre-configuration) and (CS/PS Mode 2 or CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support pc_eFDD pc_eFDD pc_eFDD 9.2.3.2.4a Combined tracking area update / Successful for EPS/IMSI attach (with or without pre-configuration) Rel-11 C02 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) pc_eFDD pc_eFDD <td>9.2.3.2.2</td> <td>Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS</td> <td>Rel-8</td> <td>C02</td> <td>UEs supporting E-UTRA and combined EPS/IMSI attach (with or without configuration)</td> <td>-</td> <td></td> <td></td> <td></td> | 9.2.3.2.2 | Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS | Rel-8 | C02 | UEs supporting E-UTRA and combined EPS/IMSI attach (with or without configuration) | - | | | |
| EPS services only / MSC temporarily not reachable UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) pc_UTRA, pc_GERAN Tested (Note 2 AND Note 6) 9.2.3.2.4 Combined tracking area update / successful for EPS services only / CS domain not available Rel-8 C125 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and (CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support pc_eFDD pc_eFDD | | | | | | pc_eTDD | | | |
| 9.2.3.2.4 Combined tracking area update / successful for EPS services only / CS domain not available Rel-8 C125 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and (CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support pc_eFDD pc_eFDD 9.2.3.2.4a Combined tracking area update / Successful for EPS services only / CS domain not available Rel-11 C02 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and (CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support pc_eTDD pc_eTDD 9.2.3.2.4a Combined tracking area update / Successful for EPS services only / Congestion Rel-11 C02 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) pc_eTDD pc_eTDD | 9.2.3.2.3 | EPS services only / MSC temporarily not | Rel-8 | C128 | UTRA and GERAN, and, combined EPS/IMSI | pc_UTRA, | | (Note 2 AND | |
| 9.2.3.2.4 Combined tracking area update / successful for EPS services only / CS domain not available Rel-8 C125 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and (CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support pc_eFDD pc_eTDD 9.2.3.2.4a Combined tracking area update / Successful for EPS services only / Congestion Rel-11 C02 UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) pc_eFDD | | | | | | pc_eTDD, pc_UTRA, | - | | Rel-9 UTRA TDD |
| 9.2.3.2.4a Combined tracking area update / Successful for Rel-11 C02 UEs supporting E-UTRA and combined pc_eFDD EPS/IMSI attach (with or without pre-configuration) pc_eTDD | 9.2.3.2.4 | Combined tracking area update / successful for EPS services only / CS domain not available | Rel-8 | C125 | EPS/IMSI attach (with or without pre- configuration) and (CS/PS Mode 2 or CS/PS | pc_eFDD | | | |
| | 9.2.3.2.4a | | Rel-11 | C02 | EPS/IMSI attach (with or without pre- | pc_eFDD | - | | |
| | 9.2.3.2.5 | Combined tracking area update / Rejected / IMSI | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- | pc_eFDD, | ny RATComb | 1 Execution (Note | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
|------------|--|---------|-------------------|--|--|-----------------------|------------------------------------|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | invalid | | | UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_UTRA, pc_GERAN | Tested | 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.2.6 | Combined tracking area update / Rejected / Illegal ME | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.2.7 | Combined tracking area update / Rejected / EPS services and non-EPS services not allowed | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.2.8 | Combined tracking area update / Rejected / EPS services not allowed | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2 AND Note 5) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.2.9 | Combined tracking area update / Rejected / UE identity cannot be derived by the network | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.2.10 | Combined tracking area update / Rejected / UE implicitly detached | Rel-8 | C02 | UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.3.2.11 | Combined tracking area update / Rejected / PLMN not allowed | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.2.12 | Combined tracking area update / Rejected / Tracking area not allowed | Rel-8 | C02 | UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) | pc_eFDD | | | |
| 9.2.3.2.13 | Combined tracking area update / Rejected / Roaming not allowed in this tracking area | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, | | | Rel-9 UTRA TDD |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
|------------|---|---------|-------------------|--|--|-----------------------|----------------------------|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | | | | | pc_GERAN | | | |
| 9.2.3.2.14 | Combined tracking area update / rejected / EPS services not allowed in this PLMN | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and, combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_eTDD, pc_UTRA, pc_GERAN | | | Rel-9 UTRA TDD |
| 9.2.3.2.15 | Combined tracking area update / Rejected / No suitable cells in tracking area | Rel-8 | C02 | UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) | pc_eFDD | | | |
| | | _ | - | | pc_eTDD | | | |
| 9.2.3.2.16 | Combined tracking area update / rejected / Not authorized for this CSG | Rel-8 | C123 | UEs supporting E-UTRA and allowed CSG list and combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.3.2.17 | Combined tracking area update / Abnormal case / handling of the EPS tracking area updating attempt counter | Rel-8 | C141 | UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre- configuration) and CS/PS Mode 2 (data centric) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.2.3.3.1 | First lu mode to S1 mode inter-system change after attach | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 9.2.3.3.2 | Iu mode to S1 mode intersystem change / ISR is active / Expiry of T3312 in E-UTRAN or T3412 in UTRAN and further intersystem change | Rel-8 | C59 | UEs supporting E-UTRAN and UTRA and ISR | pc_eFDD | | 1 Execution (Note 5) | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 9.2.3.3.3 | lu mode to S1 mode intersystem change / Periodic TAU and RAU/ ISR activated, T3423 expired | Rel-8 | C59 | UEs supporting E-UTRAN and UTRA and ISR | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 9.2.3.3.4 | First S1 mode to lu mode inter-system change after attach | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 9.2.3.3.5 | Periodic routing area update | Rel-8 | C27 | UEs supporting E-UTRA and UTRA or/and E- | pc_eFDD, | px_RATComb_ | 1 Execution (Note | |
| | | | | UTRA and GERAN, and, ISR | pc_UTRA, pc_GERAN | Tested | 2) | |
| | | | | | pc_eTDD, | 7 | | Rel-9 UTRA TDD |
| | | | | | pc_UTRA, pc_GERAN | | | |
| 9.2.3.3.5a | Periodic Location Update | Rel-8 | C128 | UEs supporting E-UTRA and UTRA or/and E- UTRA and GERAN, and combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD, pc_UTRA, pc_GERAN | px_RATComb_ Tested | 1 Execution (Note 2) | |
| | | | | | pc_GERAN pc_eTDD, pc_UTRA, pc_GERAN | 1 | | Rel-9 UTRA TDD |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 9.2.3.3.6 | Void | | | | | | | |
| 9.2.3.4.1 | TAU/RAU procedure for inter-system cell reselection between A/Gb and S1 modes | Rel-8 | C05 | UEs supporting E-UTRA and GERAN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.3.1.1 | Service request initiated by UE for user data | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 9.3.1.2 | Void | | | | | | | |
| 9.3.1.3 | Service request / Mobile originating CS fallback | Rel-8 | C26 | UEs supporting E-UTRA and CS fallback | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.3.1.4 | Service request / Rejected / IMSI invalid | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | px_RATComb_ Tested | 1 Execution (Note 1) | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 9.3.1.5 | Service request / Rejected / Illegal ME | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | px_RATComb_ | 1 Execution (Note | |
| | | | | | | Tested | 1) | |
| | - | | _ | | pc_eTDD | | | Rel-9 UTRA TDD |
| 9.3.1.6 | Service request / Rejected / EPS services not allowed | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | px_RATComb_ Tested | 1 Execution (Note 1) | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 9.3.1.7 | Service request / Rejected / UE identity cannot be derived by the network | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.3.1.7a | Service request / Rejected / UE implicitly detached | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.3.1.12a | Extended service request / Rejected / CS domain temporarily not available | Rel-8 | C26 | UEs supporting E-UTRA and CS fallback | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.3.1.15 | Void | | | | | | | |
| 9.3.1.16 | Service request / Abnormal case / Switch off | Rel-8 | C53 | UEs supporting E-UTRA and switch on/off | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.3.1.17 | Service request / Abnormal case / Procedure collision | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.3.1.18 | Service request / Rejected / Not authorized for this CSG | Rel-8 | C156 | UEs supporting E-UTRA and allowed CSG list | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.3.2.1 | Paging procedure | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | - | | | pc_eTDD | | | |
| 9.3.2.2 | Paging for CS fallback / Idle mode | Rel-8 | C26 | UEs supporting E-UTRA and CS fallback | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.3.2.2a | Paging for CS fallback / Connected mode | Rel-8 | C26 | UEs supporting E-UTRA and CS fallback | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.4.1 | Integrity protection / Correct functionality of EPS NAS integrity algorithm / SNOW3G | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.4.2 | Integrity protection / Correct functionality of EPS | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | NAS integrity algorithm / AES | | | | | | | |
| | | D 1 0 | | | pc_eTDD | - | | |
| 9.4.3 | Ciphering and deciphering / Correct functionality of EPS NAS encryption algorithm / SNOW3G | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.4.4 | Ciphering and deciphering / Correct functionality of EPS NAS encryption algorithm / AES | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 9.4.5 | Integrity protection / Correct functionality of EPS NAS integrity algorithm / ZUC | Rel-11 | C215 | UEs supporting E-UTRA and ZUC algorithm | pc_eFDD | | Note 3 | |
| | | | | | pc_eTDD | | | |
| 9.4.6 | Ciphering and deciphering / Correct functionality of EPS NAS encryption algorithm / ZUC | Rel-11 | C215 | UEs supporting E-UTRA and ZUC algorithm | pc_eFDD | | Note 3 | |
| | | | | | pc_eTDD | | | |
| 10 | EPS Session Management | | | | | | | |
| 10.2.1 | Dedicated EPS bearer context activation / Success | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.3.1 | EPS bearer context modification / Success | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| 0.0.1 | | | i v | | pc_eTDD | | | - |
| 10.4.1 | EPS bearer context deactivation / Success | Rel-8 | C97 | UEs supporting E-UTRA and Multiple PDN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.4.2 | EPS bearer context deactivation / Re- | Rel-8 | C209 | UEs supporting E-UTRA and VoLTE in GSMA | pc_eFDD | | | |
| | establishment | | | PRD IR.92: 'IMS Profile for Voice and SMS' and UE Configured to provide IMS APN as the second PDN connection or UE Configured to provide Internet as the second PDN connection. | pc_eTDD | | | |
| 10.5.1 | UE requested PDN connectivity procedure accepted by the network | Rel-8 | C97 | UEs supporting E-UTRA and Multiple PDN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.5.1a | UE requested PDN connectivity accepted / Dual | Rel-11 | C204 | UEs supporting E-UTRA and Multiple PDN and | pc_eFDD | | | |
| | priority / T3396 override | | | LAP and LAP override | pc_eTDD | | | |
| 10.5.1b | UE requested PDN connectivity accepted / Dual | Rel-11 | C204 | UEs supporting E-UTRA and Multiple PDN and | pc_eFDD | | | |
| | priority / T3346 override | | | LAP and LAP override | pc_eTDD | | | |
| 10.5.2 | Void | | | | | | | |
| 10.5.3 | UE requested PDN connectivity procedure not accepted | Rel-8 | C97 | UEs supporting E-UTRA and Multiple PDN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.5.4 | UE requested PDN connectivity not accepted / | Rel-10 | C178 | UEs supporting E-UTRA and LAP | pc_eFDD | | | |
| | Network reject with Extended Wait Timer | | | | pc_eTDD | -1 | | |
| 10.6.1 | UE requested PDN disconnect procedure | Rel-8 | C97 | UEs supporting E-UTRA and Multiple PDN | pc_eFDD | | | |
| 10.0.1 | accepted by the network | 1761-0 | 0.97 | | pc_eFDD | | | |
| 10.6.2 | Void | + | 1 | | | | | |
| 10.0.2 | UE requested bearer resource allocation, | Rel-8 | C54 | UEs supporting E-UTRA and ESM UE | pc_eFDD | + | | + |
| 10.7.1 | accepted by the network / New EPS bearer | 1/61-0 | 0.04 | requested bearer resource allocation procedure | Po_ei DD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | context | | | | pc_eTDD | | | |
| 10.7.2 | UE requested bearer resource allocation accepted by the network / Existing EPS bearer context | Rel-8 | C54 | UEs supporting E-UTRA and ESM UE requested bearer resource modification procedure | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.7.3 | UE requested bearer resource allocation not accepted by the network | Rel-8 | C54 | UEs supporting E-UTRA and ESM UE requested bearer resource allocation procedure | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.7.4 | UE requested bearer resource allocation / Expiry of timer T3480 | Rel-8 | C54 | UEs supporting E-UTRA and ESM UE requested bearer resource allocation procedure | pc_eFDD | | | |
| 10 7 5 | | | | | pc_eTDD | | | |
| 10.7.5 | UE requested bearer resource allocation / BEARER RESOURCE ALLOCATION REJECT message including cause #43 'unknown EPS bearer context' | Rel-8 | C98 | UEs supporting E-UTRA and ESM UE requested bearer resource allocation procedure and Multiple PDN | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.8.1 | UE requested bearer resource modification accepted by the network / New EPS bearer context | Rel-8 | C55 | UEs supporting E-UTRA and ESM UE requested bearer resource modification procedure and UE requested modification of network allocated TFTs | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.8.2 | UE requested bearer resource modification accepted by the network / Existing EPS bearer context | Rel-8 | C55 | UEs supporting E-UTRA and ESM UE requested bearer resource modification procedure and UE requested modification of network allocated TFTs | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.8.3 | UE requested bearer resource modification not accepted by the network | Rel-8 | C55 | UEs supporting E-UTRA and ESM UE requested bearer resource modification procedure and UE requested modification of network allocated TFTs | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.8.4 | UE requested bearer resource modification / Cause #36 'regular deactivation' | Rel-8 | C55 | UEs supporting E-UTRA and ESM UE requested bearer resource modification procedure and UE requested modification of network allocated TFTs | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.8.5 | UE requested bearer resource modification / BEARER RESOURCE MODIFICATION REJECT message including cause #43 'unknown EPS bearer context' | Rel-8 | C55 | UEs supporting E-UTRA and ESM UE requested bearer resource modification procedure and UE requested modification of network allocated TFTs | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.8.6 | UE requested bearer resource modification / Collision of a UE requested bearer resource modification procedure and EPS bearer context deactivation procedure | Rel-8 | C55 | UEs supporting E-UTRA and ESM UE requested bearer resource modification procedure and UE requested modification of network allocated TFTs | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 10.8.7 | UE requested bearer resource modification / | Rel-8 | C55 | UEs supporting E-UTRA and ESM UE | pc_eFDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | Expiry of timer T3481 | | | requested bearer resource modification procedure and UE requested modification of network allocated TFTs | | | | |
| | | | | | pc_eTDD | | | |
| 10.8.8 | UE requested bearer resource modification / Dual | Rel-11 | C196 | UEs supporting E-UTRA and ESM UE | pc_eFDD | | | |
| | priority / low priority override | | | requested bearer resource modification procedure and UE requested modification of network allocated TFTs and LAP and LAP override | pc_eTDD | | | |
| 10.9.1 | UE routing of uplink packets | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 11 | General Tests | | | | | | | |
| 11.1 | SMS over SGs | | | | | | | |
| 11.1.1 | MT-SMS over SGs / Idle mode | Rel-8 | C22 | UEs supporting E-UTRA and MT SMS over SGs, and combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 11.1.2 | MT-SMS over SGs / Active mode | Rel-8 | C22 | UEs supporting E-UTRA and MT SMS over SGs, and combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 11.1.3 | MO-SMS over SGs / Idle mode | Rel-8 | C23 | UEs supporting E-UTRA and MO SMS over SGs, and combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | ······································ | pc_eTDD | | | |
| 11.1.4 | MO-SMS over SGs / Active mode | Rel-8 | C23 | UEs supporting E-UTRA and MO SMS over SGs, and combined EPS/IMSI attach (with or without pre-configuration) | pc_eFDD | | | |
| | | | | , , , , , , , , , , , , , , , , , , , | pc_eTDD | | | |
| 11.1.5 | Multiple MO-SMS over SGs / Idle mode | Rel-9 | C164 | UEs supporting E-UTRA and concatenated multiple MO SMS over SGs | pc_eFDD | | (Note 3) | |
| | | | | | pc_eTDD | | | |
| 11.1.6 | Multiple MO-SMS over SGs / Active mode | Rel-9 | C164 | UEs supporting E-UTRA and concatenated multiple MO SMS over SGs | pc_eFDD | | (Note 3) | |
| 14.0 | | | | | pc_eTDD | | | |
| 11.2 | Emergency calls over IMS | Del 0 | 074 | | | | | |
| 11.2.1 | Emergency bearer services / Normal cell / NORMAL-SERVICE / Local Emergency Numbers List sent in the Attach / PDN connect new emergency EPS bearer context / Service request / Emergency PDN disconnect | Rel-9 | C71 | UEs supporting E-UTRA and IMS emergency call | pc_eFDD pc_eTDD pc_IPv4 pc_IPv6 pb_IPv4_DHCPv 4_AAUP | | | |
| 11.2.2 | Emergency bearer services / Normal cell / LIMITED-SERVICE / Attach / PDN connect | Rel-9 | C71 | UEs supporting E-UTRA and IMS emergency call | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 11.2.3 | Emergency bearer services / CSG cell / LIMITED- SERVICE / Attach / Security mode control | Rel-9 | C71 | UEs supporting E-UTRA and IMS emergency call | pc_eFDD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | procedure without prior authentication / PDN connect / Service request / PDN disconnect / Detach upon UE switched off / Temporary storage of EMM information | | | | pc_eTDD | | | |
| 11 0 1 | | Dallo | 074 | LIFE summerting F LITDA and MAC emergences | | | | |
| 11.2.4 | Emergency bearer services / Normal cell / NO- IMSI / Attach / No EPS security context / PDN connect / Service request / Timer T3412 expires | Rel-9 | C71 | UEs supporting E-UTRA and IMS emergency call | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 11.2.5 | Emergency bearer services / Normal cell / NORMAL-SERVICE / Local Emergency Numbers List NOT sent in the Attach / PDN connect new emergency EPS bearer context / Authentication SQN code failure - MME aborts authentication continues using current security context / Service request | Rel-9 | C71 | UEs supporting E-UTRA and IMS emergency call | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 11.2.6 | Handling of Local Emergency Numbers List provided during Attach and Normal tracking area update procedures | Rel-9 | C71 | UEs supporting E-UTRA and IMS emergency call | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 11.2.7 | UE has PDN connection for emergency bearer services / Normal tracking area update / Accepted / Local Emergency Numbers List is not sent by the network / Handling of the lists of | Rel-9 | C71 | UEs supporting E-UTRA and IMS emergency call | pc_eFDD | | | |
| | forbidden tracking areas | | | | | | | |
| 11.2.8 | Attach for emergency bearer services / Rejected / No suitable cells in tracking area / Emergency call using the CS domain / UTRA or GERAN | Rel-9 | C109 | UEs supporting E-UTRA and IMS emergency call and establishing the emergency call using the CS domain in UTRA or GERAN | pc_eTDD pc_eFDD | | 1 Execution (Note 2) Either TC 11.2.8 or TC 11.2.8a shall be executed. | Rel-8 UTRA FDD or Rel-8 GERAN |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD or Rel-8 GERAN |
| 11.2.8a | Attach for emergency bearer services / Rejected / No suitable cells in tracking area / Emergency call using the CS domain / CDMA2000 1xRTT | Rel-9 | C172 | UEs supporting E-UTRA and IMS emergency call and establishing the emergency call using the CS domain in 1xRTT | pc_eFDD | | Either TC 11.2.8 or TC 11.2.8a shall be executed. | |
| | C C | | | | pc_eTDD | | | |
| 11.2.10 | LIMITED-SERVICE / EPS does not support IMS Emergency / Emergency call using the CS domain | Rel-9 | C71 | UEs supporting E-UTRA and IMS emergency call | pc_eFDD | | | |
| | | | | | pc_eTDD | 1 | 1 | 1 |
| 11.2.11 | LIMITED-SERVICE / Inter-system mobility / E- UTRA to UTRA CS / SRVCC Emergency Call Handover to UTRAN | Rel-9 | C139 | UEs supporting E-UTRA and UTRA and SRVCC and IMS emergency call | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 11.2.12 | LIMITED-SERVICE / Inter-system mobility / E- UTRA to GSM CS / SRVCC Emergency Call | Rel-9 | C231 | UEs supporting E-UTRA and GERAN and SRVCC and IMS emergency call | pc_eFDD | | | |

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| | | | Condition | Comment | Information Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | Handover to GERAN | | | | | | | |
| 40 | E-UTRA Radio Bearer Tests | | | | pc_eTDD | | | |
| 12 12.2.1 | Data transfer of E-UTRA radio bearer | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| 12.2.1 | combinations 1, 3, 6 and 9 | Kel-o | ĸ | | | | | |
| | | | | | pc_eTDD | | | |
| 12.2.2 | Data transfer of E-UTRA radio bearer combinations 2, 4, 7 and 10 | Rel-8 | C16F | UEs supporting E-UTRA and Feature Group Indicator 7 | pc_eFDD | | Note 12 | |
| | | | C16T | | pc_eTDD | | | |
| 12.2.3 | Data transfer of E-UTRA radio bearer combinations 5, 6, 8, 11 and 12 | Rel-8 | C32F | UEs supporting E-UTRA and Feature Group Indicator 7 and Feature Group Indicator 20 | pc_eFDD | | Note 12 | |
| | | | C32T | | pc_eTDD | | | |
| 12.2.4 | Data transfer of E-UTRA radio bearer combination 13 | Rel-8 | C33F | UEs supporting E-UTRA and Feature Group Indicator 20 | pc_eFDD | | Note 12 | |
| | | | C33T | | pc_eTDD | | | |
| 12.3.1 | Data transfer of E-UTRA radio bearer combinations 1, 3, 6 and 9 / MIMO | Rel-8 | C56 | UEs supporting E-UTRA and (UE Category 2 to UE Category 5) | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 12.3.2 | Data transfer of E-UTRA radio bearer combinations 2, 4, 7 and 10 / MIMO | Rel-8 | C29F | UEs supporting E-UTRA and Feature Group Indicator 7 and (UE Category 2 or UE Category 3 or UE Category 4 or UE Category 5) | pc_eFDD | | Note 12 | |
| | | | C29T | | pc_eTDD | | | |
| 12.3.3 | Data transfer of E-UTRA radio bearer combinations 5, 6, 8, 11 and 12 / MIMO | Rel-8 | C31F | UEs supporting E-UTRA and Feature Group Indicator 7 and Feature Group Indicator 20 and (UE Category 2 or UE Category 3 or UE Category 4 or UE Category 5) | pc_eFDD | | Note 12 | |
| | | | C31T | | pc_eTDD | | | |
| 12.3.4 | Data transfer of E-UTRA radio bearer combination 13 / MIMO | Rel-8 | C30F | UEs supporting E-UTRA and Feature Group Indicator 20 and (UE Category 2 or UE Category 3 or UE Category 4 or UE Category 5) | pc_eFDD | | Note 12 | |
| | | | C30T | | pc_eTDD | | | |
| 13 | Multi-layer Procedures | | | | | | | |
| 13.1.1 | Activation and deactivation of additional packet radio bearer in E-UTRA | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 13.1.2 | Call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with redirection / MO call | Rel-8 | C48 | UEs supporting E-UTRA and UTRA and CS fallback and speech | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.1.2a | Call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with redirection including System Information / MO call | Rel-9 | C104 | UEs supporting E-UTRA and UTRA and CS fallback and use of the UTRA system information provided by <i>RRCConnectionRelease</i> upon redirection and speech | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.1.3 | Call setup from E-UTRAN RRC_CONNECTED / CS fallback to UTRAN with redirection / MT call | Rel-8 | C84 | UEs supporting E-UTRA and UTRA and CS fallback and speech and PS domain services and CS domain services simultaneously | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | 1 | 1 | Rel-9 UTRA TDD |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 13.1.4 | Call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with Handover / MT call | Rel-8 | C81F | UEs supporting E-UTRA and UTRA and CS fallback and Feature Group Indicator 8 and speech and PS domain services and CS domain services simultaneously | pc_eFDD | | | |
| | | | C81T | · · · · · · · · · · · · · · · · · · · | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.1.5 | Call setup from E-UTRAN RRC_CONNECTED / CS fallback to UTRAN with Handover / MO call | Rel-8 | C81F | UEs supporting E-UTRA, UTRA, CS fallback and Feature Group Indicator 8 and speech and PS domain services and CS domain services simultaneously | pc_eFDD | | Note 12 | |
| | | | C81T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.1.7 | Call setup from E-UTRA RRC_IDLE / CS fallback to GSM with redirection / MT call | Rel-8 | C57 | UEs supporting E-UTRA and GERAN and CS fallback and speech | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.1.8 | Call setup from E-UTRA RRC_CONNECTED / CS fallback to GSM with redirection / MO call | Rel-8 | C60 | UEs supporting E-UTRA and GERAN and CS fallback and speech | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.1.9 | Call setup from E-UTRA RRC_IDLE / CS fallback to GSM with CCO without NACC / MO call | Rel-8 | C96F | UEs supporting E-UTRA and GERAN and CS fallback and Feature Group Indicator 10 and speech | pc_eFDD | | | |
| | | | C96T | | pc_eTDD | | | |
| 13.1.10 | Call setup from E-UTRA RRC_CONNECTED / CS fallback to GSM with CCO without NACC / MT call | Rel-8 | C96F | UEs supporting E-UTRA and GERAN and CS fallback and Feature Group Indicator 10 and speech | pc_eFDD | | Note 12 | |
| | | | C96T | 7 | pc_eTDD | | | |
| 13.1.11 | Call setup from E-UTRA RRC_IDLE / CS fallback to GSM with PSHO / EDTM not supported / MT call | Rel-8 | C110F | UEs supporting E-UTRA and GERAN and CS fallback and PS handover from E-UTRAN to GERAN and Feature Group Indicator 23 and speech | pc_eFDD | | | |
| | | | C110T | | pc_eTDD | | | |
| 13.1.12 | Call setup from E-UTRA RRC_CONNECTED / CS fallback to GSM with PSHO / EDTM not supported / MO call | Rel-8 | C110F | UEs supporting E-UTRA and GERAN and CS fallback and PS handover from E-UTRAN to GERAN and Feature Group Indicator 23 and speech | pc_eFDD | | | |
| | | | C110T | | pc_eTDD | | | |
| 13.1.13 | Call setup from E-UTRA RRC_IDLE / CS fallback to GSM with PSHO / EDTM supported / MT call | Rel-8 | C111F | UEs supporting E-UTRA and GERAN and EDTM and CS fallback and PS handover from E-UTRAN to GERAN and Feature Group Indicator 23 and speech | pc_eFDD | | | |
| | | | C111T | | pc_eTDD | | | |
| 13.1.15 | Call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with redirection / MT call / UTRAN cell is barred | Rel-8 | C48 | UEs supporting E-UTRA and UTRA and CS fallback and speech | pc_eFDD | | | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.1.16 | Emergency call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with handover | Rel-8 | C105F | UEs supporting E-UTRA and UTRA and CS fallback and Feature Group Indicator 8 and speech | pc_eFDD | | | |
| | | | C105T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.1.17 | Call setup from E-UTRAN RRC_IDLE / mobile | Rel-8 | C41 | UEs supporting E-UTRA and 1xRTT and 1xCS | pc_eFDD | | | |

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| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | originating 1xCS fallback emergency call to 1xRTT | | | fallback | | | | |
| | | | | | pc_eTDD | | | |
| 13.1.18 | Call setup from E-UTRAN RRC_IDLE / mobile originating enhanced 1xCS fallback emergency call to 1xRTT | Rel-9 | C116 | UEs supporting E-UTRA and 1xRTT and Enhanced 1xCS fallback | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.1.19 | Emergency call setup from E-UTRAN RRC_IDLE / IMS VoPS supported / EMC BS not supported / CS fallback to UTRAN or GERAN with redirection | Rel-9 | C249 | UEs supporting E-UTRA and (UTRA or GERAN) and combined EPS/IMSI attach and CS fallback and CS speech and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.1.20 | Emergency call setup from E-UTRAN RRC_IDLE / IMS VoPS supported / EMC BS supported / CS fallback to UTRAN or GERAN with redirection | Rel-9 | C249 | UEs supporting E-UTRA and (UTRA or GERAN) and combined EPS/IMSI attach and CS fallback and CS speech and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' | pc_eFDD | | | |
| | | | | - | pc_eTDD | | | |
| 13.2.1 | RRC connection reconfiguration / E-UTRA to E- UTRA | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 13.3.1.1 | Intra-system connection re-establishment / Radio link recovery while T310 is running | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 13.3.1.2 | Intra-system connection re-establishment / Re- establishment of a new connection when further data is to be transferred | Rel-8 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 13.3.1.3 | RRC connection reconfiguration / Full configuration / DRB establishment | Rel-9 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 13.3.2.1 | Inter-system connection re-establishment / E- UTRAN to UTRAN / Further data are to be transferred | Rel-8 | C01 | UEs Supporting E-UTRA and UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.3.2.2 | Inter-system connection re-establishment / E- UTRAN to GPRS / Further data are to be | Rel-8 | C05 | UEs Supporting E-UTRA and GERAN | pc_eFDD | | Note 12 | |
| | transferred | | | | pc_eTDD | | | |
| 3.4.1.2 | Inter-frequency mobility / E-UTRA to E-UTRA packet | Rel-8 | C21F | UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 | pc_eFDD | | Note 12 | |
| | | | C21T | | pc_eTDD | | 1 | |
| 13.4.1.3 | Intra-system mobility / E-UTRA FDD to E-UTRA TDD to E-UTRA FDD packet | Rel-8 | C63 | UEs supporting E-UTRA FDD and TDD and FDD Feature Group Indicator 25and FDD Feature Group Indicator 30 and TDD Feature Group Indicator 25 and TDD Feature Group Indicator 30 | | | Note 12 | |

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| 13.4.1.4 | Inter-band mobility / E-UTRA to E-UTRA packet | Rel-9 | C185F | UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 and more than 1 FDD or TDD E-UTRA band | pc_eFDD | | Note 3 Note 12 | |
| | | | C185T | | pc_eTDD | | | |
| 13.4.1.5 | RRC connection reconfiguration / Handover/ Full configuration / DRB establishment | Rel-9 | R | UEs supporting E-UTRA | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 13.4.2.1 | Inter-system mobility / E-UTRA to UTRA packet | Rel-8 | C36F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 8 and Feature Group Indicator 22 | pc_eFDD | | Note 12 | |
| | | | C36T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.2.2 | Inter-system mobility / E-UTRAN to GPRS packet | Rel-8 | C107F | UEs supporting E-UTRA and GERAN and PS handover from E-UTRAN to GERAN and Feature Group Indicator 23 | pc_eFDD | | Note 12 | |
| | | | C107T | | pc_eTDD | | | |
| 13.4.2.4 | Inter-system mobility / Service based redirection from UTRA to E-UTRA | Rel-8 | C01 | UEs supporting E-UTRA and UTRA | pc_eFDD | | | |
| I | | | | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.2.5 | Inter-system mobility / Service based redirection from GSM/GPRS to E-UTRA | Rel-8 | C114 | UEs supporting E-UTRA and GERAN and CCN towards E-UTRAN and E-UTRAN Neighbour Cell measurement reporting and Network controlled cell reselection to E-UTRAN | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 13.4.2.6 | Inter-RAT PS Handover / from GPRS packet transfer to E-UTRA cell | Rel-8 | C89 | UEs supporting E-UTRA and GERAN and GERAN to E-UTRAN PS Handover | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 13.4.2.7 | Inter-RAT PS Handover / Synchronised / From GPRS Packet_transfer to E-UTRA cell (CCN mode) | Rel-8 | C89 | UEs supporting E-UTRA and GERAN and GERAN to E-UTRAN PS Handover | pc_eFDD | | Note 12 | |
| | , | | | | pc_eTDD | | | |
| 13.4.2.8 | Inter-RAT PS Handover / Synchronised / From GPRS Packet_transfer to E-UTRA cell (NC2 mode) | Rel-8 | C89 | UEs supporting E-UTRA and GERAN and GERAN to E-UTRAN PS Handover | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 13.4.3.1 | Inter-system mobility / E-UTRA voice to UTRA CS voice / SRVCC | Rel-8 | C112F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 7 and Feature Group Indicator 8 and Feature Group Indicator 22 and Feature Group Indicator 27 and SRVCC and IM S voice | pc_eFDD | | | |
| i | | | C112T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.2 | Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / SRVCC | Rel-8 | C112F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 7 and Feature Group Indicator 8 and Feature Group Indicator 22 and Feature Group Indicator 27 and SRVCC and IM S voice | pc_eFDD | | | |
| | | | C112T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.3 | Inter-system mobility / E-UTRA voice to GSM CS voice / SRVCC | Rel-8 | C144F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 7 and Feature Group | pc_eFDD | | | |

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| | | | | Indicator 9 and Feature Group Indicator 23 and SRVCC from E-UTRAN to GERAN/UTRAN and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' | | | | |
| | | | C144T | | pc_eTDD | | | |
| 13.4.3.4 | Inter-system mobility / E-UTRA voice to UTRA CS voice / Unsuccessful case / Retry on old cell / SRVCC | Rel-8 | C112F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 7 and Feature Group Indicator 8 and Feature Group Indicator 22 and Feature Group Indicator 27 and SRVCC and IM S voice | pc_eFDD | | | |
| | | | C112T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.5 | Inter-system mobility / E-UTRA voice to GSM CS voice / Unsuccessful case / Retry on old cell / SRVCC | Rel-8 | C144F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 7 and Feature Group Indicator 9 and Feature Group Indicator 23 and SRVCC from E-UTRAN to GERAN/UTRAN and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' | pc_eFDD | | | |
| | | | C144T | | pc_eTDD | | | |
| 13.4.3.6 | Inter-system mobility / E-UTRA PS voice + PS Data / HO cancelled / Notification procedure/ SRVCC | Rel-9 | C160F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 7, 8, 22 and 27 and SRVCC and IMS voice and Notification procedure | pc_eFDD | | Note 3 Either TC 13.4.3. 6 or TC 13.4.3.41 shall be executed. (Note 9) | Rel-8 UTRA FDD |
| | | | C160T | | pc_eTDD | | n í | Rel-9 UTRA TDD |
| 13.4.3.7 | Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MO call | Rel-10 | C159F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 27 and IMS voice and aSRVCC | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | C159T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.8 | Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MO call / Forked responses | Rel-10 | C159F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 27 and IMS voice and aSRVCC | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | C159T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.9 | Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MO call / SRVCC HO failure | Rel-10 | C159F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 27 and IMS voice and aSRVCC | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | C159T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.10 | Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MT call | Rel-10 | C159F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 27 and IMS voice and aSRVCC | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | C159T | 7 | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.11 | Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MT call / SRVCC HO failure | Rel-10 | C159F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 27 and IMS voice and aSRVCC | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | C159T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.12 | Void | | | | | | | |
| 13.4.3.13 | Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MT call / SRVCC HO cancelled / User answers in PS domain | Rel-10 | C161F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 27 and IMS voice and aSRVCC and Notification procedure | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |

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| | | | C161T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.14 | Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / aSRVCC / MO call | Rel-10 | C159F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 27 and IMS voice and aSRVCC | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | C159T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.15 | Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / aSRVCC / MO call / SRVCC HO cancelled | Rel-10 | C161F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 27 and IMS voice and aSRVCC and Notification procedure | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | C161T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.16 | Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / aSRVCC / MT call | Rel-10 | C159F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 27 and IMS voice and aSRVCC | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | C159T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.17 | Void | | | | | | | |
| 13.4.3.18 | Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / bSRVCC / MO call | Rel-12 | C201F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 27 and IMS voice and bSRVCC | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | C201T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.19 | Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / bSRVCC / MO call / SRVCC HO cancelled | Rel-12 | C202F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 27 and IMS voice and bSRVCC and Notification procedure | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | C202T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.20 | Inter-system mobility / E-UTRA voice to UTRA CS voice / bSRVCC / MO call / SRVCC HO failure | Rel-12 | C201F | UEs supporting E-UTRA and UTRA and Feature Group Indicator 27 and IMS voice and bSRVCC | pc_eFDD | | Note 3 | Rel-8 UTRA FDD |
| | | | C201T | | pc_eTDD | | | Rel-9 UTRA TDD |
| 13.4.3.21 | Inter-system mobility / E-UTRA PS voice to GSM CS voice / bSRVCC / MO call | Rel-12 | C198F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 7, 9 and 23 and SRVCC from E-UTRAN to GERAN/UTRAN and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' AND bSRVCC | pc_eFDD | | Note 3 | |
| | | | C198T | | pc_eTDD | | | |
| 13.4.3.22 | Inter-system mobility / E-UTRA PS voice to GSM CS voice / bSRVCC / MO call / SRVCC HO cancelled | Rel-12 | C199F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 7, 9 and 23 and SRVCC from E-UTRAN to GERAN/UTRAN and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' AND bSRVCC AND Notification procedure | pc_eFDD | | Note 3 | |
| | | 1 | C199T | 1 . | pc eTDD | 1 | | |
| 13.4.3.23 | Inter-system mobility / E-UTRA voice to GSM CS voice / bSRVCC / MO call / SRVCC HO failure | Rel-12 | C198F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 7, 9 and 23 and SRVCC from E-UTRAN to GERAN/UTRAN and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' AND bSRVCC | pc_eFDD | | Note 3 | |
| | | | C198T | | pc_eTDD | | | |
| 13.4.3.24 | Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MO call | Rel-10 | C193F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 7, 9 and 23 and SRVCC from E-UTRAN to GERAN/UTRAN and | pc_eFDD | | Note 3 | |

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| | | | | VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' AND aSRVCC | | | | |
| | | | C193T | | pc_eTDD | | | |
| 13.4.3.25 | Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MO call / Forked responses | Rel-10 | C193F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 7, 9 and 23 and SRVCC from E-UTRAN to GERAN/UTRAN and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' AND aSRVCC | pc_eFDD | | Note 3 | |
| | | | C193T | | pc_eTDD | | | |
| 13.4.3.26 | Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MO call / SRVCC HO failure | Rel-10 | C193F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 7, 9 and 23 and SRVCC from E-UTRAN to GERAN/UTRAN and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' AND aSRVCC | pc_eFDD | | Note 3 | |
| | | | C193T | | pc_eTDD | | | |
| 13.4.3.27 | Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MT call | Rel-10 | C193F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 7, 9 and 23 and SRVCC from E-UTRAN to GERAN/UTRAN and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' AND aSRVCC | pc_eFDD | | Note 3 | |
| | | | C193T | | pc eTDD | | | |
| 13.4.3.28 | Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MT call / SRVCC HO failure | Rel-10 | C193F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 7, 9 and 23 and SRVCC from E-UTRAN to GERAN/UTRAN and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' AND aSRVCC | pc_eFDD | | Note 3 | |
| | | | C193T | 1 | pc_eTDD | | | |
| 13.4.3.29 | Void | | | | | | | |
| 13.4.3.30 | Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MT call / SRVCC HO cancelled / User answers in PS domain | Rel-10 | C200F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 7, 9 and 23 and SRVCC from E-UTRAN to GERAN/UTRAN and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' AND aSRVCC AND Notification procedure | pc_eFDD | | Note 3 | |
| | | | C200T | | pc_eTDD | | | |
| 13.4.3.31 | nter-system mobility / GERAN CS voice to E- UTRA voice / rSRVCC | Rel-11 | C219 | UEs supporting E-UTRA and GERAN and IMS voice and rSRVCC | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.4.3.32 | Inter-system mobility / UTRA CS voice to E- | Rel-11 | C217 | UEs supporting E-UTRA and UTRA and IMS | pc_eFDD | | | |
| | UTRA voice / rSRVĆC | | | voice and rSRVCC | pc_eTDD | | | |
| 13.4.3.33 | Inter-system mobility / GERAN CS voice to E- UTRA voice / alerting / rSRVCC / MO call | Rel-11 | C220 | UEs supporting E-UTRA and GERAN and IMS voice and rSRVCC and rSRVCC in alerting state | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.4.3.34 | Inter-system mobility / UTRA CS voice to E- | Rel-11 | C218 | UEs supporting E-UTRA and UTRA and IMS | pc_eFDD | | | |
| | UTRA voice / alerting / rSRVCC / MO call | | | voice and rSRVCC and rSRVCC in alerting state | pc_eTDD | | | |

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| 13.4.3.35 | Inter-system mobility / GERAN CS voice to E- UTRA voice / alerting / rSRVCC / MT call | Rel-11 | C220 | UEs supporting E-UTRA and GERAN and IMS voice and rSRVCC and rSRVCC in alerting state | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.4.3.36 | Inter-system mobility / UTRA CS voice to E- | Rel-11 | C218 | UEs supporting E-UTRA and UTRA and IMS | pc_eFDD | | | |
| | UTRA voice / alerting / rSRVCC / MT call | | | voice and rSRVCC and rSRVCC in alerting state | pc_eTDD | | 1 | |
| 13.4.3.37 | Inter-system mobility / GERAN CS voice to E- UTRA voice / rSRVCC / HO cancelled | Rel-11 | C219 | UEs supporting E-UTRA and GERAN and IMS voice and rSRVCC | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.4.3.38 | Inter-system mobility / UTRA CS voice to E- | Rel-11 | C217 | UEs supporting E-UTRA and UTRA and IMS | pc_eFDD | | | |
| | UTRA voice / rSRVCC / HO cancelled | | | voice and rSRVCC | pc_eTDD | | | |
| 13.4.3.39 | Inter-system mobility / UTRA CS voice + PS data to E-UTRA voice + PS data / rSRVCC | Rel-11 | C217 | UEs supporting E-UTRA and UTRA and IMS voice and IMS and rSRVCC | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.4.3.40 | Intersystem mobility / UTRA CS voice to E-UTRA voice / rSRVCC / Multiple voice calls with mid-call feature | Rel-11 | C232 | UEs supporting E-UTRA and UTRA and IMS voice and IMS and rSRVCC and multiple PDN | pc_eFDD | | | |
| | | | | | pc_eTDD | | - | |
| 13.4.3.41 | Inter-system mobility / E-UTRA PS voice to GSM CS voice / HO cancelled / Notification procedure / SRVCC | Rel-9 | C144F | UEs supporting E-UTRA and GERAN and Feature Group Indicator 7 and Feature Group Indicator 9 and Feature Group Indicator 23 and SRVCC from E-UTRAN to GERAN/UTRAN and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' | pc_eFDD | | Either TC 13.4.3. 6 or TC 13.4.3.41 shall be executed (Note 9) | |
| | | | C144T | | pc_eTDD | | | |
| 13.4.4.1 | Pre-registration at 1xRTT and Cell reselection / 1x Zone Registration | Rel-9 | C41 | UEs supporting E-UTRA and 1xRTT and 1xCS fallback | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.4.4.2 | Pre-registration at 1xRTT and Cell reselection / 1x Ordered Registration | Rel-9 | C41 | UEs supporting E-UTRA and 1xRTT and 1xCS fallback | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.4.4.3 | Inter-system session management / eHRPD Multiple PDN setup in eHRPD pre-registration state | Rel-9 | C42F | UEs supporting E-UTRA and HRPD and Feature Group Indicator 12 and Feature Group Indicator 26 | pc_eFDD | | | |
| | | | C42T | | pc_eTDD | | | |
| 13.4.4.4 | Inter-system session management / Pre- registration at HRPD and Cell reselection / HRPD Zone Registration | Rel-9 | C42F | UEs supporting E-UTRA and HRPD and Feature Group Indicator 12 and Feature Group Indicator 26 | pc_eFDD | | | |
| | | | C42T | | pc_eTDD | | | |
| 13.4.4.5 | Pre-Registration at 1xRTT / Power Down Registration | Rel-9 | C116 | UEs supporting E-UTRA and 1xRTT and Enhanced 1xCS fallback | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.5.1 | MTSI MO speech call / SSAC / 0% access probability for MTSI MO speech call | Rel-9 | C236 | UEs supporting E-UTRA and Initiating session and MTSI speech. | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.5.1a | MTSI MO speech call / SSAC in Connected mode | Rel-12 | C236 | UEs supporting E-UTRA and Initiating session | pc_eFDD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
|---------|---|---------|-------------------|--|---------------------------|---------------|----------------------------|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | / 0% access probability for MTSI MO speech call | | | and MTSI speech. | | | | |
| | | | | | pc_eTDD | | | |
| 13.5.1b | MTSI MO speech call / SSAC in Connected mode / access probability changed for MTSI MO speech call | Rel-12 | C236 | UEs supporting E-UTRA and Initiating session and MTSI speech. | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.5.2 | MTSI MO video call / SSAC / 0% access probability for MTSI MO video call | Rel-9 | C237 | UEs supporting E-UTRA and Initiating session and MTSI speech and MTSI video. | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.5.2a | MTSI MO video call / SSAC in connected mode / 0% access probability for MTSI MO video call | Rel-12 | C237 | UEs supporting E-UTRA and Initiating session and MTSI speech and MTSI video. | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.5.2b | MTSI MO speech call / SSAC in Connected mode / access probability changed for MTSI MO video call | Rel-12 | C237 | UEs supporting E-UTRA and Initiating session and MTSI speech and MTSI video. | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.5.3 | Emergency call / Success / SSAC / 0% access probability for MTSI MO speech call | Rel-9 | C71 | UEs supporting E-UTRA and IMS emergency call. | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.5.3a | Emergency call / Success / SSAC in connected mode / 0% access probability for MTSI MO speech call | Rel-12 | C71 | UEs supporting E-UTRA and IMS emergency call. | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.5.4 | MTSI MO speech call / SCM / 0% access probability skip for MTSI MO speech call | Rel-12 | C183 | UEs supporting E-UTRA and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 13.5.5 | MTSI MO video call / SCM / 0% access | Rel-12 | C223 | UE supporting E-UTRA and MTSI Video call | pc_eFDD | | | |
| | probability skip for MTSI MO video call | | | | pc_eTDD | | | |
| 13.5.6 | MTSI MO SMS / SCM / 0% access probability skip for MTSI MO SMS over IP | Rel-12 | C183 | UEs supporting E-UTRA and VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 14 | ETWS | | | | | | | |
| 14.1 | ETWS reception in RRC_IDLE state / Duplicate detection | Rel-8 | C64 | UEs supporting E-UTRA and ETWS reception | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 14.2 | ETWS reception in RRC_CONNECTED state / Duplicate detection | Rel-8 | C64 | UEs supporting E-UTRA and ETWS reception | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 14.3 | Void | | | | | | | |
| 15 | Mobility management based on DSMIPv6 (Dual-Stack Mobile IPv6) | | | | | | | |
| 15.1 | Discovery of the Home Agent via DNS | Rel-8 | C34 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 and being configured to discover the Home Agent address via DNS | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
|--|--|---------|--|---|---------------------------|---------------|----------------------------|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 15.2 | Discovery of the Home Agent via DHCPv6 | Rel-8 | C49 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 and being configured to discover the Home Agent address via DHCPv6 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 15.3 | Void | | | | | | | |
| 15.4 | Security association establishment with Home Agent reallocation procedure | Rel-8 | C35 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 15.5 | Security association establishment without Home Agent reallocation procedure | Rel-8 | C35 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 5.6 Registration of a new IPv6 CoA (Binding Update/Acknowledgment procedure in IPv6 network) | Rel-8 | C35 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 | pc_eFDD | | | | |
| | , | | | | pc_eTDD | | | |
| 15.7 | Registration of a new IPv4 CoA (Binding Update/Acknowledgment procedure in IPv4 network) | Rel-8 | C35 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 | pc_eFDD | | | |
| | , | | | | pc_eTDD | | | |
| 15.8 | Re-registration of IPv6 CoA | Rel-8 | C35 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 15.9 | Re-registration of IPv4 CoA | Rel-8 | C35 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 15.10 | Return to home link | Rel-8 | C35 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 15.11 | Dual-Stack Mobile IPv6 detach in IPv6 network | Rel-8 | C35 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 15.12 | Dual-Stack Mobile IPv6 detach in IPv4 network | Rel-8 | C35 | UEs supporting E-UTRA and Mobility management based on Dual-Stack Mobile IPv6 | pc_eFDD | | | |
| - | | | | | pc_eTDD | | | |
| 17 | MBMS in LTE | | | | | | | |
| 17.1 | MCCH Information Acquisition | | 04110 | | 505 | | | |
| 17.1.1 | MCCH information acquisition/ UE is switched on | Rel-9 | C113 | UEs supporting E-UTRA and MBMS | pc_eFDD | | Note 12 | |
| 4740 | | Del O | 0110 | | pc_eTDD | | Nata 40 | |
| 17.1.2 | MCCH information acquisition/UE cell reselection to a cell in a new MBSFN area | Rel-9 | C113 | UEs supporting E-UTRA and MBMS | pc_eFDD | | Note 12 | |
| 4740 | MOOLLinformation acquisition/UE has down to a | Del O | 0140 | | pc_eTDD | | Nata 40 | |
| 17.1.3 | MCCH information acquisition/UE handover to a cell in a new MBSFN area | Rel-9 | C113 | UEs supporting E-UTRA and MBMS | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.1.4 | MCCH information acquisition/ UE is receiving an MBMS service | Rel-9 | C113 | UEs supporting E-UTRA and MBMS | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
|---------|---|---------|-------------------|---|---------------------------|---------------|---|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| 17.1.5 | MCCH information acquisition/ UE is not receiving MBMS data | Rel-9 | C113 | UEs supporting E-UTRA and MBMS | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.2 | MBMS data receiving | | | | | | | |
| 17.2.1 | UE Acquire the MBMS data based on the SIB13 and MCCH message /MCCH and MTCH are on the same MCH | Rel-9 | C113 | UEs supporting E-UTRA and MBMS | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.2.2 | UE Acquire the MBMS data based on the SIB13 and MCCH message /MCCH and MTCH are on different MCHs | Rel-9 | C113 | UEs supporting E-UTRA and MBMS | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.2.3 | UE receives the MBMS data when this data is in the beginning of the MSP | Rel-9 | C113 | UEs supporting E-UTRA and MBMS | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.2.4 | Reception of PDCCH DCI format 0 and PHICH in MBSFN subframes | Rel-9 | C113 | UEs supporting E-UTRA and MBMS | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.3 | MBMS Counting Procedure | | | | | | | |
| 17.3.1 | MBMS Counting / UE not receiving MBMS service | Rel-10 | C113 | UEs supporting E-UTRA and MBMS | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.3.2 | MBMS Counting / UE receiving MBMS service | Rel-10 | C113 | UEs supporting E-UTRA and MBMS | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.4 | MBMS Service Continuity | | | | | | | |
| 17.4.1 | Cell reselection to intra-frequency cell to continue MBMS service reception | Rel-11 | C113a | UEs supporting E-UTRA and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.4.1a | Cell reselection to intra-frequency cell to continue MBMS service reception / Single Frequency operation (inter-band neighbouring cell) | Rel-11 | C113a | UEs supporting E-UTRA and MBMS and MBMS service continuity This test is 'cells on single frequency only' equivalent of TC 17.4.1 | pc_eFDD | | Either TC 17.4.1 or TC 17.4.1a shall be executed. (Note 8) | |
| 17.4.2 | Cell reselection to inter- frequency cell to start | Rel-11 | C113a | UEs supporting E-UTRA and MBMS and | pc_erbb pc_eFDD | | Note 12 | |
| 17.4.2 | MBMS service reception | IXEI-11 | CTISa | MBMS service continuity | pc_er DD | | | |
| | | | | | pc_eTDD | | - | |
| 17.4.2a | Cell reselection to inter- band cell to start MBMS service reception | Rel-11 | C113a | UEs supporting E-UTRA and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.4.3 | Handover to inter-frequency cell to start MBMS service reception | Rel-11 | C113bF | UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | C113bT | 1 | pc_eTDD | | 1 | |
| 17.4.3a | Handover to inter-band cell to start MBMS service reception | Rel-11 | C113bF | UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | C113bT | | pc_eTDD | | | |
| 17.4.4 | Handover to intra-frequency cell to continue | Rel-11 | C113a | UEs supporting E-UTRA and MBMS and | pc_eFDD | | Note 12 | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
|-----------|--|---------|-------------------|---|---------------------------|---------------|----------------------------|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| • | MBMS service reception | | | MBMS service continuity | | | | |
| | | | | | pc_eTDD | | | |
| 17.4.5 | Conditional retransmission of MBMS Interest Indication after handover | Rel-11 | C113a | UEs supporting E-UTRA and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.4.6 | MBMS Interest Indication retransmission after returning from cell not broadcasting SIB15 | Rel-11 | C113a | UEs supporting E-UTRA and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.4.7 | MBMS Interest Indication after Radio Link Failure | Rel-11 | C113a | UEs supporting E-UTRA and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.4.8 | Continue MBMS service reception after E- UTRAN release of unicast bearer | Rel-11 | C113a | UEs supporting E-UTRA and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.4.9.1 | CA / Start MBMS reception on Non-Serving Cell / Continue MBMS reception on SCell after SCell addition / Intra-band Contiguous CA | Rel-11 | C113cF | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation and Feature Group Indicator 13 and Feature Group Indicator 25 and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | C113cT | | pc_eTDD | | | |
| 17.4.9.2 | CA / Start MBMS reception on Non-Serving Cell / Continue MBMS reception on SCell after SCell addition / Inter-band CA | Rel-11 | C113dF | UEs supporting E-UTRA and Inter-band Carrier Aggregation and Feature Group Indicator 13 and Feature Group Indicator 25 and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | C113dT | | pc_eTDD | | | |
| 17.4.10.1 | CA / Start MBMS reception on SCell / Continue MBMS reception on Non-Serving after SCell release / Intra-band Contiguous CA | Rel-11 | C113e | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | 5 | | | , | pc_eTDD | | | |
| 17.4.10.2 | CA / Start MBMS reception on SCell / Continue MBMS reception on Non-Serving after SCell release / Inter-band CA | Rel-11 | C113f | UEs supporting E-UTRA and Inter-band Carrier Aggregation and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | | | pc_eTDD | | | |
| 17.4.11.1 | CA / Start MBMS reception on PCell / Continue MBMS reception after swap of SCell and PCell / Intra-band Contiguous CA | Rel-11 | C113cF | UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation and Feature Group Indicator 13 and Feature Group Indicator 25 and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | C113cT | | pc_eTDD | | | |
| 17.4.11.2 | CA / Start MBMS reception on PCell / Continue MBMS reception after swap of SCell and PCell / Inter-band CA | Rel-11 | C113dF | UEs supporting E-UTRA and Inter-band Carrier Aggregation and Feature Group Indicator 13 and Feature Group Indicator 25 and MBMS and MBMS service continuity | pc_eFDD | | Note 12 | |
| | | | C113dT | 1 | pc_eTDD | | | |
| 18 | PWS Over LTE | | | | | | | |
| 18.1.1 | PWS reception in RRC_IDLE state / Duplicate detection | Rel-9 | C129 | UEs supporting E-UTRA and CMAS | pc_eFDD | | Note 3 | |
| 18.1.2 | PWS reception in RRC_CONNECTED state / Duplicate detection | Rel-9 | C129 | UEs supporting E-UTRA and CMAS | pc_eFDD | | Note 3 | |
| 18.1.3 | PWS reception in RRC_CONNECTED | Rel-9 | C129 | UEs supporting E-UTRA and CMAS | pc_eFDD | | Note 3 | |

| Clause | TC Title | Release | Applicabili ty | | Additional Information | | | |
|---------|---|---------|-------------------|---|---------------------------|---------------|----------------------------|----------------------|
| | | | Condition | Comment | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| | State/Power On | | | | | | | |
| 19 | Device to Device Proximity Service | | | | | | | |
| 19.1.2 | Successful ProSe Direct Communication/Limited Service state | Rel-12 | C238 | UEs supporting E-UTRA and supporting ProSe direct communication | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 19.1.3 | Direct Communication / Out of E-UTRAN | Rel-12 | C238 | UEs supporting E-UTRA and supporting ProSe | pc_eFDD | | | |
| | Coverage or Other Radio Resources than Serving Cell/ Successful Radio Parameter Selection | | | direct communication | pc_eTDD | | | |
| 19.1.4 | Direct Communication / Transition between In | Rel-12 | C238 | UEs supporting E-UTRA and supporting ProSe | pc_eFDD | | | |
| | Coverage and Out of Coverage / Correct Radio Parameter Selection | | | direct communication | pc_eTDD | | | |
| 19.1.5 | Direct Communication / Out of E-UTRAN | Rel-12 | C238 | UEs supporting E-UTRA and supporting ProSe | pc_eFDD | | | |
| | Coverage or Other Radio Resources than Serving Cell | | | direct communication | pc_eTDD | | | |
| 19.1.6 | Security Aspects / ProSe Direct Communication / | Rel-12 | C238 | UEs supporting E-UTRA and supporting ProSe | pc_eFDD | | | |
| | Security Information for Confidentiality Protection - Correct Counting and Wrapping | | | direct communication | pc_eTDD | | | |
| 19.1.10 | Security Aspects/ ProSe Direct Communication/ | Rel-12 | C238 | UEs supporting E-UTRA and supporting ProSe | pc_eFDD | | | |
| | Security Information for no Confidentiality Protection | | | direct communication | pc_eTDD | | | |
| 19.2.1 | Successful Announce Request Procedure/Direct discovery | Rel-12 | C226 | UEs supporting E-UTRA and ProSe direct discovery announcing | pc_eFDD | | | |
| | | | | | pc_eTDD | | | |
| 19.2.4 | Successful EPC-LEVEL ProSe Discovery | Rel-12 | C241 | UEs supporting E-UTRA and UEs Supporting | pc_eFDD | | | |
| | | | | ProSe EPC level discovery | pc_eTDD | | | |

Table 4-1a: Applicability of tests Conditions

| 004 | |
|-------|--|
| C01 | IF A.4.1-1/6 THEN R ELSE N/A |
| C01a | IF [8]A.1/1 THEN R ELSE N/A |
| C02 | IF A.4.4-2/2 THEN R ELSE N/A |
| C03 | IF A.4.4-1/1 THEN R ELSE N/A |
| C04 | IF A.4.4-2/1 THEN R ELSE N/A |
| C05 | IF A.4.1-1/7 THEN R ELSE N/A |
| C06 | IF A.4.1-1/3 THEN R ELSE N/A |
| C07 | IF A.4.1-1/4 THEN R ELSE N/A |
| C08F | IF A.4.5-1a/5 THEN R ELSE N/A |
| C08T | IF A.4.5-1b/5 THEN R ELSE N/A |
| C09 | Void |
| C10F | IF A.4.5-1a/25 THEN R ELSE N/A |
| C10T | IF A.4.5-1b/25 THEN R ELSE N/A |
| C11F | IF A.4.5-1a/16 AND A.4.5-1a/25 THEN R ELSE N/A |
| C11T | IF A.4.5-1b/16 AND A.4.5-1b/25 THEN R ELSE N/A |
| C12 | Void |
| C13F | IF A.4.1-1/6 AND A.4.5-1a/16 AND A.4.5-1a/22 THEN R ELSE N/A |
| C13T | IF A.4.1-1/6 AND A.4.5-1b/16 AND A.4.5-1b/22 THEN R ELSE N/A |
| C14F | IF A.4.5-1a/5 AND A.4.5-1a/17 THEN R ELSE N/A |
| C14T | IF A.4.5-1b/5 AND A.4.5-1b/17 THEN R ELSE N/A |
| C15F | IF A.4.5-1a/3 AND A.4.5-1a/7 THEN R ELSE N/A |
| C15T | IF A.4.5-1b/3 AND A.4.5-1b/7 THEN R ELSE N/A |
| C16F | IF A.4.5-1a/7 THEN R ELSE N/A |
| C16T | IF A.4.5-1b/7 THEN R ELSE N/A |
| C17F | IF A.4.1-1/6 AND A.4.1-1/7 AND A.4.5-1a/22 AND A.4.5-1a/23 THEN R ELSE N/A |
| C17T | IF A.4.1-1/6 AND A.4.1-1/7 AND A.4.5-1b/22 AND A.4.5-1b/23 THEN R ELSE N/A |
| C18 | Void |
| C19F | IF A.4.5-1a/6 AND A.4.5-1a/7 AND NOT A.4.3.2-2/1 THEN R ELSE N/A |
| C19aF | IF A.4.5-1a/6 AND A.4.5-1a/7 AND A.4.3.2-2/1 THEN R ELSE N/A |
| C19T | IF A.4.5-1b/6 AND A.4.5-1b/7 AND NOT A.4.3.2-2/1 THEN R ELSE N/A |
| | IF A.4.5-1b/6 AND A.4.5-1b/7 AND A.4.3.2-2/1 THEN R ELSE N/A |
| C20F | IF A.4.1-1/7 AND A.4.5-1a/16 AND A.4.5-1a/23 THEN R ELSE N/A |
| C20T | IF A.4.1-1/7 AND A.4.5-1b/16 AND A.4.5-1b/23 THEN R ELSE N/A |
| C21F | IF A.4.5-1a/13 AND A.4.5-1a/25 THEN R ELSE N/A |
| C21T | IF A.4.5-1b/13 AND A.4.5-1b/25 THEN R ELSE N/A |
| C22 | IF A.4.4-1/3 AND A.4.4-2/2 THEN R ELSE N/A |
| C23 | IF A.4.4-1/4 AND A.4.4-2/2 THEN R ELSE N/A |
| C24F | IF A.4.1-1/3 AND A.4.5-1a/16 AND A.4.5-1a/26 THEN R ELSE N/A |
| C24T | IF A.4.1-1/3 AND A.4.5-1b/16 AND A.4.5-1b/26 THEN R ELSE N/A |
| C25F | IF A.4.1-1/4 AND A.4.5-1a/16 AND A.4.5-1a/24 THEN R ELSE N/A |
| C25T | IF A.4.1-1/4 AND A.4.5-1b/16 AND A.4.5-1b/24 THEN R ELSE N/A |
| C26 | IF A.4.2.1.1-1/1 THEN R ELSE N/A |
| C27 | IF (A.4.1-1/6 OR A.4.1-1/7) AND A.4.4-1/5 THEN R ELSE N/A |
| | |

| C28 | Void |
|--------------|---|
| C29F | IF A.4.5-1a/7 AND (A.4.3.2-1/2 OR A.4.3.2-1/3 OR A.4.3.2-1/4 OR A.4.3.2-1/5) THEN R ELSE N/A |
| C29T | IF A.4.5-1b/7 AND (A.4.3.2-1/2 OR A.4.3.2-1/3 OR A.4.3.2-1/4 OR A.4.3.2-1/5) THEN R ELSE N/A |
| C30F | IF A.4.5-1a/20 AND (A.4.3.2-1/2 OR A.4.3.2-1/3 OR A.4.3.2-1/4 OR A.4.3.2-1/5) THEN R ELSE N/A |
| C30T | IF A.4.5-1b/20 AND (A.4.3.2-1/2 OR A.4.3.2-1/3 OR A.4.3.2-1/4 OR A.4.3.2-1/5) THEN R ELSE N/A |
| C31F | IF (A.4.5-1a/7 AND A.4.5-1a/20 AND (A.4.3.2-1/2 OR A.4.3.2-1/3 OR A.4.3.2-1/4 OR A.4.3.2-1/5)) THEN R |
| | ELSE N/A |
| C31T | IF (A.4.5-1b/7 AND A.4.5-1b/20 AND (A.4.3.2-1/2 OR A.4.3.2-1/3 OR A.4.3.2-1/4 OR A.4.3.2-1/5)) THEN R |
| | ELSE N/A |
| C32F | IF (A.4.5-1a/7 AND A.4.5-1a/20) THEN R ELSE N/A |
| C32T | IF (A.4.5-1b/7 AND A.4.5-1b/20) THEN R ELSE N/A |
| C33F | IF A.4.5-1a/20 THEN R ELSE N/A |
| C33T | IF A.4.5-1b/20 THEN R ELSE N/A |
| C34 | IF A.4.4-1/6 AND A.4.4-1/7 THEN R ELSE N/A |
| C35 | IF A.4.4-1/6 THEN R ELSE N/A |
| C36F | IF A.4.1-1/6 AND A.4.5-1a/8 AND A.4.5-1a/22 THEN R ELSE N/A |
| C36T | IF A.4.1-1/6 AND A.4.5-1b/8 AND A.4.5-1b/22 THEN R ELSE N/A |
| C37 | IF A.4.1-1/6 AND (A.4.4-1/8 OR A.4.4-1/53) AND A.4.5-2/2 THEN R ELSE N/A |
| C38F | IF A.4.1-1/7 AND A.4.5-1a/10 AND A.4.5-1a/23 THEN R ELSE N/A |
| C38T | IF A.4.1-1/7 AND A.4.5-1b/10 AND A.4.5-1b/23 THEN R ELSE N/A |
| C39F | IF A.4.1-1/6 AND A.4.5-1a/5 AND A.4.5-1a/19 AND A.4.5-1a/22 THEN R ELSE N/A |
| C39T | IF A.4.1-1/6 AND A.4.5-1b/5 AND A.4.5-1b/19 AND A.4.5-1b/22 THEN R ELSE N/A |
| C40F | IF A.4.1-1/7 AND A.4.5-1a/5 AND A.4.5-1a/19 AND A.4.5-1a/23 THEN R ELSE N/A |
| C40T | IF A.4.1-1/7 AND A.4.5-1b/5 AND A.4.5-1b/19 AND A.4.5-1b/23 THEN R ELSE N/A |
| C41 | IF A.4.1-1/4 AND A.4.2.1.1-1/3 THEN R ELSE N/A |
| C42F | IF A.4.1-1/3 AND A.4.5-1a/12 AND A.4.5-1a/26 THEN R ELSE N/A |
| C42T | IF A.4.1-1/3 AND A.4.5-1b/12 AND A.4.5-1b/26 THEN R ELSE N/A |
| C44F | IF A.4.1-1/3 AND A.4.5-1a/5 AND A.4.5-1a/19 AND A.4.5-1a/26 THEN R ELSE N/A |
| C44T | IF A.4.1-1/3 AND A.4.5-1b/5 AND A.4.5-1b/19 AND A.4.5-1b/26 THEN R ELSE N/A |
| C45 | Void |
| C46 | IF (A.4.1-1/1 OR A.4.1-1/2) AND (NOT A.4.4-1/9) THEN R ELSE N/A |
| C47 | IF A.4.4-1/2 AND A.4.4-2/1 THEN R ELSE N/A |
| C48 | IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 THEN R ELSE N/A |
| C49 | IF A.4.4-1/6 AND A.4.4-1/10 THEN R ELSE N/A |
| C50 | Void |
| C51 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/9 AND (A.4.4-1/12 OR A.4.4-1/13 OR A.4.4-1/14 OR A.4.4-1/15) OR |
| | A.4.4-1/93 THEN R ELSE N/A |
| C52 | Void |
| C53 | IF A.4.4-1/17 THEN R ELSE N/A |
| C54 | IF A.4.4-1/18 THEN R ELSE N/A |
| C55 | IF A.4.4-1/19 AND A.4.4-1/54 THEN R ELSE N/A |
| C56 | IF (A.4.3.2-1/2 OR A.4.3.2-1/3 OR A.4.3.2-1/4 OR A.4.3.2-1/5) THEN R ELSE N/A |
| C57 | IF (A4.1-1/1 OR A.4.1-1/2) AND A4.1-1/7 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 THEN R ELSE N/A |
| | |
| C58F C58T | IF A.4.5-1a/21 THEN R ELSE N/A IF A.4.5-1b/21 THEN R ELSE N/A |

| C60 IF A.4.1.1/7 AND A.4.4-2/2 AND A.4.2.1.1.1/1 AND [8]A.2/1 THEN R ELSE IV/A C61F IF A.4.1.1/6 AND A.4.1.1/7 AND A.4.5-1a/16 AND A.4.5-1a/22 AND A.4.5-1a/23 THEN R ELSE IV/A C621 IF A.4.1.1/6 AND A.4.1.1/7 AND A.4.5-1a/16 AND A.4.5-1a/22 AND A.4.5-1b/23 THEN R ELSE IV/A C623 IF A.4.1.1/1 AND A.4.1.1/7 AND A.4.5-1a/16 AND A.4.5-1b/22 AND A.4.5-1b/25 AND A.4.5-1b/26 AND A.4.2.11-11/1 AND A.4.4-2/2 AND A.4.5-1b/26 AND A.4.2.11 AND [8]A.2/1 AND [8]A.2/1 AND [8]A.3/3 TH | 0.50 | | | | | | | |
|---|------|---|--|--|--|--|--|--|
| C61F IF A.4.1-1/6 AND A.4.1-1/7 AND A.4.5-1a/16 AND A.4.5-1a/22 AND A.4.5-1a/23 THEN R ELSE N/A C61T IF A.4.1-1/6 AND A.4.1-1/7 AND A.4.5-1b/16 AND A.4.5-1a/22 AND A.4.5-1a/23 THEN R ELSE N/A C62 Void C63 IF A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1a/25 AND A.4.5-1a/20 AND A.4.5-1b/25 AND A.4.5-1b/30 THEN R ELSE N/A C64 IF A.4.1-1/2 OTHEN R ELSE N/A C64 IF A.4.1-1/2 OTHEN R ELSE N/A C66 IF B.A.1.1/6 AND A.4.1-1/21 THEN R ELSE N/A C66 IF B.4.1-1/6 AND A.4.4-1/22 THEN R ELSE N/A C66 IF A.4.1-1/6 AND A.4.4-1/22 THEN R ELSE N/A C66 IF A.4.1-1/6 AND A.4.4-1/22 THEN R ELSE N/A C70 Void C71 IF A.4.4-1/6 AND A.4.4-1/23 THEN R ELSE N/A C72 Void C71 IF A.4.4-1/6 AND A.4.4-1/23 THEN R ELSE N/A C72 Void C73 Void C73 Void C74 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C75 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/40 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/2 AND A.4.4-1/40 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/2 AND A.4.4-1/40 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/2 AN | C59 | IF A.4.1-1/6 AND A.4.4-1/5 THEN R ELSE N/A | | | | | | |
| C61T IF A.4.1-1/6 AND A.4.1-1/7 AND A.4.5-1b/16 AND A.4.5-1b/22 AND A.4.5-1b/23 THEN R ELSE N/A C63 IF A.4.1.1/1 AND A.4.1-1/2 AND A.4.5-1a/25 AND A.4.5-1a/30 AND A.4.5-1b/25 AND A.4.5-1b/30 THEN R ELSE N/A C64 IF A.4.1.1/1 AND A.4.1-1/2 AND A.4.5-1a/25 AND A.4.5-1a/30 AND A.4.5-1b/25 AND A.4.5-1b/30 THEN R C63 IF A.4.1.1/2 OTHEN R ELSE N/A C65 Void C66 IF [8]A.1/4 AND A.4.4-1/21 THEN R ELSE N/A C66 C67 Void C68 IF A.4.4.1/6 AND A.4.4-1/22 THEN R ELSE N/A C68 IF A.4.4.1/6 AND A.4.4-1/23 THEN R ELSE N/A C70 Void C70 Void C71 IF A.4.1.1/A FHEN R ELSE N/A C72 Void C73 Void C73 Void C74 IF A.4.1.1/6 AND A.4.4.1/2 THEN R ELSE N/A C75 IF A.4.1.1/6 AND A.4.4.1/2 THEN R ELSE N/A C75 IF A.4.1.1/6 AND A.4.4.1/2 THEN R ELSE N/A C76 IF A.4.1.1/6 AND A.4.4.1/2 THEN R ELSE N/A C77 IF A.4.1.1/6 AND A.4.4.1/9 THEN R ELSE N/A C78 Void C78 Void C79 Void C80 IF A.4.1.1/6 AND A.4.4.1/2 AND A.4.4.1/3 THEN R ELSE N/A C81 IF A.4.1.1/6 AN | | | | | | | | |
| C62 Void C63 IF A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1a/25 AND A.4.5-1a/30 AND A.4.5-1b/25 AND A.4.5-1b/30 THEN R ELSE N/A C64 IF A.4.4-1/20 THEN R ELSE N/A C65 Void C66 IF [8]A.1/4 AND A.4.4-1/21 THEN R ELSE N/A C67 Void C68 IF A.4.4-1/6 AND A.4.4-1/21 THEN R ELSE N/A C68 IF A.4.4-1/6 AND A.4.4-1/22 THEN R ELSE N/A C70 Void C71 IF A.4.2.1/6 AND A.4.4-1/23 THEN R ELSE N/A C72 Void C73 Void C74 IF A.4.2.1.1/4 THEN R ELSE N/A C75 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C78 Void C79 Void C70 Void C80 IF A.4.1-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C81 IF A.4.1-1/2 AND A.4.4-1/49 THEN R ELSE N/A C82 IF A.4.1-1/2 AND A.4.4-1/49 ND A.4.4-1/103 THEN R ELSE N/A | | | | | | | | |
| C63 IF A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1a/25 AND A.4.5-1a/30 AND A.4.5-1b/25 AND A.4.5-1b/30 THEN R ELSE N/A C64 IF A.4.4-1/20 THEN R ELSE N/A C65 Void C66 IF [8]A.1/4 AND A.4.4-1/21 THEN R ELSE N/A C67 Void C68 IF A.4.4-1/6 AND A.4.4-1/22 THEN R ELSE N/A C69 Void C61 IF [8]A.1/4 AND A.4.4-1/22 THEN R ELSE N/A C62 Void C70 Void C71 IF A.4.4-1/6 AND A.4.4-1/23 THEN R ELSE N/A C72 Void C73 Void C74 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C75 Void C76 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C76 IF A.4.1-1/2 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C77 IF A.4.1-1/2 AND A.4.4-1/49 THEN R ELSE N/A C78 Void C79 Void C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C817 IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.2-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.2-2/2 AND A.4.5-1a/8 AND [8]A.3/3 THEN R ELSE N/A | | | | | | | | |
| ELSE N/A C64 IF A.4.4-1/20 THEN R ELSE N/A C65 Void C66 IF [8]A.1/4 AND A.4.4-1/21 THEN R ELSE N/A C67 Void C68 IF A.4.4-1/6 AND A.4.4-1/22 THEN R ELSE N/A C69 IF A.4.4-1/6 AND A.4.4-1/23 THEN R ELSE N/A C70 Void C71 IF A.4.4-1/6 AND A.4.4-1/23 THEN R ELSE N/A C72 Void C73 Void C74 IF A.4.4-1/26 THEN R ELSE N/A C75 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 ND A.4.4-1/49 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C77 Void C78 Void C79 Void C80a IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C817 IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-10/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C817 IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.2/2 AND A.4.5-10/8 AND [8]A.3/3 THEN R ELSE N/A C83 Void C84 <td></td> <td></td> | | | | | | | | |
| C65 Void C66 IF [8]A.1/4 AND A.4.4-1/21 THEN R ELSE N/A C67 Void C68 IF A.4.4-1/6 AND A.4.4-1/22 THEN R ELSE N/A C69 IF A.4.4-1/6 AND A.4.4-1/23 THEN R ELSE N/A C70 Void C71 IF A.4.2.1.1-1/4 THEN R ELSE N/A C72 Void C73 IF A.4.4-1/26 THEN R ELSE N/A C74 IF A.4.4-1/26 THEN R ELSE N/A C75 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C78 Void C79 Void C80a IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.1-1/2 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81F IF A.4.1-1/2 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.2/2 AND A.4.5-12/2 AND A.4.5-1a/8 AND [8]A.3/3 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-1 | C63 | | | | | | | |
| C66 IF [8]A.1/4 AND A.4.4-1/21 THEN R ELSE N/A C67 Void C68 IF A.4.4-1/6 AND A.4.4-1/23 THEN R ELSE N/A C69 IF A.4.4-1/6 AND A.4.4-1/23 THEN R ELSE N/A C70 Void C71 IF A.4.2.1.1-1/4 THEN R ELSE N/A C72 Void C73 Void C74 IF A.4.4-1/26 THEN R ELSE N/A C75 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/49 THEN R ELSE N/A C78 Void C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A C81T IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C83 Void C84 C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND | C64 | IF A.4.4-1/20 THEN R ELSE N/A | | | | | | |
| C67 Void C68 IF A.4.4-1/6 AND A.4.4-1/22 THEN R ELSE N/A C69 IF A.4.4-1/6 AND A.4.4-1/23 THEN R ELSE N/A C70 Void C71 IF A.4.2.1.1-1/4 THEN R ELSE N/A C72 Void C73 Void C74 IF A.4.2.1.1-1/4 THEN R ELSE N/A C75 Void C74 IF A.4.4-1/2 THEN R ELSE N/A C75 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C78 Void C79 Void C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80 IF A.4.4-1/2 AND A.4.4-1/49 ND A.4.4-1/103 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.3/3 THEN R ELSE N/A </td <td>C65</td> <td>Void</td> | C65 | Void | | | | | | |
| C68 IF A.4.4-1/6 AND A.4.4-1/22 THEN R ELSE N/A C69 IF A.4.4-1/6 AND A.4.4-1/23 THEN R ELSE N/A C70 Void C71 IF A.4.2.1.1-1/4 THEN R ELSE N/A C72 Void C73 Void C74 IF A.4.2.1.1-1/4 THEN R ELSE N/A C73 Void C74 IF A.4.1/26 THEN R ELSE N/A C75 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C77 Void C78 Void C79 Void C79 Void C80 IF A.4.1-1/2 AND A.4.4-1/49 THEN R ELSE N/A C800 IF A.4.1-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A C811 IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.3/3 THEN R ELSE N/A C83 Void | | IF [8]A.1/4 AND A.4.4-1/21 THEN R ELSE N/A | | | | | | |
| C69 IF A.4.4-1/6 AND A.4.4-1/23 THEN R ELSE N/A C70 Void C71 IF A.4.2.1.1-1/4 THEN R ELSE N/A C72 Void C73 Void C74 IF A.4.2.1.1-1/4 THEN R ELSE N/A C75 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 ND A.4.4-1/49 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/49 THEN R ELSE N/A C78 Void C79 Void C80a IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C83 Void C C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/ | C67 | | | | | | | |
| C70 Void C71 IF A.4.2.1.1-1/4 THEN R ELSE N/A C72 Void C73 Void C74 IF A.4.4-1/26 THEN R ELSE N/A C75 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 ND A.4.4-1/49 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/49 THEN R ELSE N/A C78 Void C79 Void C80a IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.1-1/6 AND A.4.4-1/49 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C88 | C68 | IF A.4.4-1/6 AND A.4.4-1/22 THEN R ELSE N/A | | | | | | |
| C71 IF A.4.2.1.1-1/4 THEN R ELSE N/A C72 Void C73 Void C74 IF A.4.4-1/26 THEN R ELSE N/A C75 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C78 Void C79 Void C80 IF A.4.1-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80 IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A C80a IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A | | IF A.4.4-1/6 AND A.4.4-1/23 THEN R ELSE N/A | | | | | | |
| C72 Void C73 Void C74 IF A.4.1-1/26 THEN R ELSE N/A C75 IF A.4.1-1/26 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C78 Void C79 Void C80 IF A.4.1-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.1-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.5-2/1 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE | C70 | Void | | | | | | |
| C73 Void C74 IF A.4.1-1/26 THEN R ELSE N/A C75 IF A.4.1-1/26 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.5-2/1 THEN R ELSE N/A C78 Void C79 Void C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.3/3 THEN R ELSE N/A C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.2-1/2 THEN R ELSE N/A C89 IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90F IF A.4 | C71 | IF A.4.2.1.1-1/4 THEN R ELSE N/A | | | | | | |
| C74 IF A.4.1-1/2 THEN R ELSE N/A C75 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.5-2/1 THEN R ELSE N/A C78 Void C79 Void C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.5-2/1 THEN R ELSE N/A C85 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.5-1/23 | | Void | | | | | | |
| C75 IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A C76 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.5-2/1 THEN R ELSE N/A C78 Void C79 Void C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A C81 IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81 IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-1/29 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-1/29 THEN R ELSE N/A C89 IF A.4.1-1/7 AND | | | | | | | | |
| C76 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C77 IF A.4.1-1/6 AND A.4.5-2/1 THEN R ELSE N/A C78 Void C79 Void C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C81 IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/22 THEN R ELSE N/A C | | | | | | | | |
| C77 IF A.4.1-1/6 AND A.4.5-2/1 THEN R ELSE N/A C78 Void C79 Void C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.5-2/1 THEN R ELSE N/A C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1a/22 THEN R ELSE N/A < | C75 | IF A.4.1-1/6 AND A.4.4-1/2 THEN R ELSE N/A | | | | | | |
| C78 Void C79 Void C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81T IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AN | | | | | | | | |
| C79 Void C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81T IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.2-2/4 THEN R ELSE N/A C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A | | IF A.4.1-1/6 AND A.4.5-2/1 THEN R ELSE N/A | | | | | | |
| C80 IF A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A C80a IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81T IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.5-2/1 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C90T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A | | Void | | | | | | |
| C80a IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81T IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.2.1.2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1b/22 THEN R ELSE N/A | C79 | Void | | | | | | |
| C81F IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C81T IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.5-2/1 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/6 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C90T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A | C80 | | | | | | | |
| C81T IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C82 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1b/22 THEN R ELSE N/A | C80a | IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-1/103 THEN R ELSE N/A | | | | | | |
| C82 IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A | C81F | IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A | | | | | | |
| C83 Void C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A | C81T | IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A | | | | | | |
| C84 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A | C82 | IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 THEN R ELSE N/A | | | | | | |
| C85 Void C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1b/22 THEN R ELSE N/A | C83 | Void | | | | | | |
| C86 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/4 THEN R ELSE N/A C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1b/22 THEN R ELSE N/A | C84 | IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND [8]A.3/3 THEN R ELSE N/A | | | | | | |
| C87 IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1b/22 THEN R ELSE N/A | C85 | Void | | | | | | |
| C88 Void C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1b/22 THEN R ELSE N/A | C86 | | | | | | | |
| C89 IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1b/22 THEN R ELSE N/A | | IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-2/5 THEN R ELSE N/A | | | | | | |
| C90F IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1b/22 THEN R ELSE N/A | | | | | | | | |
| C90T IF A.4.1-1/7 AND A.4.5-1b/23 THEN R ELSE N/A C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1b/22 THEN R ELSE N/A | C89 | IF A.4.1-1/7 AND A.4.4-1/29 THEN R ELSE N/A | | | | | | |
| C91F IF A.4.1-1/6 AND A.4.5-1a/22 THEN R ELSE N/A C91T IF A.4.1-1/6 AND A.4.5-1b/22 THEN R ELSE N/A | | IF A.4.1-1/7 AND A.4.5-1a/23 THEN R ELSE N/A | | | | | | |
| C91T IF A.4.1-1/6 AND A.4.5-1b/22 THEN R ELSE N/A | C90T | | | | | | | |
| | C91F | | | | | | | |
| | | | | | | | | |
| | C92F | IF A.4.1-1/3 AND A.4.5-1a/26 THEN R ELSE N/A | | | | | | |
| C92T IF A.4.1-1/3 AND A.4.5-1b/26 THEN R ELSE N/A | | | | | | | | |
| C93F IF A.4.1-1/4 AND A.4.5-1a/24 THEN R ELSE N/A | | | | | | | | |
| C93T IF A.4.1-1/4 AND A.4.5-1b/24 THEN R ELSE N/A | | IF A.4.1-1/4 AND A.4.5-1b/24 THEN R ELSE N/A | | | | | | |
| C94 Void | | Void | | | | | | |
| C95 IF A.4.1-1/7 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A | C95 | IF A.4.1-1/7 AND A.4.4-1/2 AND A.4.4-1/49 THEN R ELSE N/A | | | | | | |

| C96F | IF A.4.5-1a/10 AND A.4.4-2/2 AND A.4.1-1/7 AND A.4.2.1.1-1/1 AND [8]A.2/1 THEN R ELSE N/A |
|--------|--|
| C96T | IF A.4.5-1b/10 AND A.4.4-2/2 AND A.4.1-1/7 AND A.4.2.1.1-1/1 AND [8]A.2/1 THEN R ELSE N/A |
| C97 | IF A.4.4-1/30 THEN R ELSE N/A |
| C98 | IF (A.4.4-1/18 AND A.4.4-1/30) THEN R ELSE N/A |
| C99F | IF A.4. 4-1/51 AND A.4.5-1a/7 THEN R ELSE N/A |
| C99T | IF A.4. 4-1/51 AND A.4.5-1b/7 THEN R ELSE N/A |
| C100F | IF A.4.4-1/50 AND A.4.5-1a/7 THEN R ELSE N/A |
| C100T | IF A.4.4-1/50 AND A.4.5-1b/7 THEN R ELSE N/A |
| C101 | Void |
| C102 | Void |
| C103 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.2-1/1 THEN R ELSE N/A |
| C104 | IF A.4.1-1/6 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND A.4.4-1/31 AND [8]A.2/1 THEN R ELSE N/A |
| C105F | IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1a/8 AND [8]A.2/1 THEN R ELSE N/A |
| C105T | IF A.4.1-1/6 AND A.4.2.1.1-1/1 AND A.4.4-2/2 AND A.4.5-1b/8 AND [8]A.2/1 THEN R ELSE N/A |
| C106 | IF A.4.4-1/34 AND A.4.4-2/2 THEN R ELSE N/A |
| C107F | IF A.4.1-1/7 AND A.4.4-1/52 AND A.4.5-1a/23 THEN R ELSE N/A |
| C107T | IF A.4.1-1/7 AND A.4.4-1/52 AND A.4.5-1b/23 THEN R ELSE N/A |
| C108 | Void |
| C109 | IF A.4.2.1.1-1/4 AND (A.4.4-1/35 OR A.4.4-1/36) THEN R ELSE N/A |
| C110F | IF A.4.4-1/52 AND A.4.4-2/2 AND A.4.5-1a/23 AND A.4.1-1/7 AND A.4.2.1.1-1/1 AND [8]A.2/1 THEN R ELSE N/A |
| C110T | IF A.4.4-1/52 AND A.4.4-2/2 AND A.4.5-1b/23 AND A.4.1-1/7 AND A.4.2.1.1-1/1 AND [8]A.2/1 THEN R ELSE N/A |
| C111F | IF A.4.4-1/38 AND A.4.4-2/2 AND A.4.4-1/52 AND A.4.5-1a/23 AND A.4.1-1/7 AND A.4.2.1.1-1/1 AND [8]A.2/1 THEN R ELSE N/A |
| C111T | IF A.4.4-1/38 AND A.4.4-2/2 AND A.4.4-1/52 AND A.4.5-1b/23 AND A.4.1-1/7 AND A.4.2.1.1-1/1 AND [8]A.2/1 THEN R ELSE N/A |
| C112F | IF A.4.1-1/6 AND A.4.5-1a/7 AND A.4.5-1a/8 AND A.4.5-1a/22 AND A.4.5-1a/27 AND A.4.4-1/32 AND A.4.4- 1/33 THEN R ELSE N/A |
| C112T | IF A.4.1-1/6 AND A.4.5-1b/7 AND A.4.5-1b/8 AND A.4.5-1b/22 AND A.4.5-1b/27 AND A.4.4-1/32 AND A.4.4- 1/33 THEN R ELSE N/A |
| C113 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/5 THEN R ELSE N/A |
| | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/5 AND A.4.2.1.1-1/7 THEN R ELSE N/A |
| | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.5-1a/13 AND A.4.5-1a/25 AND A.4.2.1.1-1/5 AND A.4.2.1.1-1/7 THEN R ELSE N/A |
| C113bT | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.5-1b/13 AND A.4.5-1b/25 AND A.4.2.1.1-1/5 AND A.4.2.1.1-1/7 THEN R ELSE N/A |
| C113cF | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) AND A.4.5-1a/13 AND A.4.5-1a/25 AND A.4.2.1.1-1/5 AND A.4.2.1.1-1/7 THEN R ELSE N/A |
| C113cT | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) AND A.4.5-1b/13 AND A.4.5-1b/25 AND A.4.2.1.1-1/5 AND A.4.2.1.1-1/7 THEN R ELSE N/A |
| C113dF | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.3-1/1 AND A.4.5-1a/13 AND A.4.5-1a/25 AND A.4.2.1.1-1/5 AND A.4.2.1.1-1/7 THEN R ELSE N/A |
| C113dT | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.3-1/1 AND A.4.5-1b/13 AND A.4.5-1b/25 AND A.4.2.1.1-1/5 AND A.4.2.1.1-1/7 THEN R ELSE N/A |
| | |

| C1120 | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) AND A.4.2.1.1-1/5 AND A.4.2.1.1-1/7 THEN R | | | | | | |
|--------|---|--|--|--|--|--|--|
| CIISe | ELSE N/A | | | | | | |
| C113f | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.3-1/1 AND A.4.2.1.1-1/5 AND A.4.2.1.1-1/7 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/7 AND A.4.4-1/39 THEN R ELSE N/A | | | | | | |
| | IF (A.4.1-1/7 AND [8]A.2/1) THEN R ELSE N/A | | | | | | |
| C116 | IF A.4.1-1/4 AND A.4.2.1.1-1/6 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/4 AND A.4.2.1.1-1/6 THEN R ELSE N/A IF A.4.1-1/6 AND (([8]A.18a/14 AND [8]A.18a/18 AND [8]A.18a/22) OR ([8]A.18b/10 AND [8]A.18b/14)) AND | | | | | | |
| CII/F | A.4.1-170 AND (([0]A.10a/14 AND [0]A.10a/16 AND [0]A.10a/22) OK ([0]A.10b/10 AND [0]A.10b/14)) AND A.4.5-1a/8 AND A.4.5-1a/22 THEN R ELSE N/A | | | | | | |
| C117T | IF A.4.1-1/6 AND (([8]A.18a/14 AND [8]A.18a/18) OR ([8]A.18b/10 AND [8]A.18b/14)) AND A.4.5-1b/8 AND | | | | | | |
| 0 | A.4.5-1b/22 THEN R ELSE N/A | | | | | | |
| C118F | IF A.4.4-1/2 AND A.4.4-1/104 AND A.4.5-1a/25 THEN R ELSE N/A | | | | | | |
| | IF A.4.4-1/2 AND A.4.4-1/104 AND A.4.5-1b/25 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/100 AND A.4.5-1a/22 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/100 AND A.4.5-1b/22 THEN R ELSE N/A | | | | | | |
| | IF A.4.5-1a/7 AND A.4.4-1/40 AND A.4.4-1/41 THEN R ELSE N/A | | | | | | |
| | IF A.4.5-1b/7 AND A.4.4-1/40 AND A.4.4-1/41 THEN R ELSE N/A | | | | | | |
| | IF A.4.4-2/2 AND A.4.1-1/6 THEN R ELSE N/A | | | | | | |
| C122 | Void | | | | | | |
| | IF A.4.4-1/2 AND A.4.4-2/2 THEN R ELSE N/A | | | | | | |
| C124 | Void | | | | | | |
| | IF A.4.4-2/2 AND (A.4.4-2/5 OR (A.4.4-2/4 AND A.4.4-1/33)) THEN R ELSE N/A | | | | | | |
| C126 | IF A.4.1-1/6 AND A.4.4-1/56 THEN R ELSE N/A | | | | | | |
| C127 | IF A.4.1-1/6 AND A.4.4-1/57 THEN R ELSE N/A | | | | | | |
| | IF A.4.4-2/2 AND (A.4.1-1/6 OR A.4.1-1/7) THEN R ELSE N/A | | | | | | |
| | IF A.4.4-1/58 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1a/25 AND A.4.5-1b/25 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/6 AND (NOT A.4.4-1/57) THEN R ELSE N/A | | | | | | |
| C132 | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) THEN R ELSE N/A | | | | | | |
| C132a | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.2-1/1 THEN R ELSE N/A | | | | | | |
| C133 | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) AND (A.4.3.3.1-2/1 OR A.4.3.3.1-2/2) THEN | | | | | | |
| | R ÈLSE N/A | | | | | | |
| C134F | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) AND A.4.5-3a/11 THEN R ELSE N/A | | | | | | |
| | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) AND A.4.5-3b/11 THEN R ELSE N/A | | | | | | |
| C134aF | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.2-1/1 AND A.4.5-3a/11 THEN R ELSE N/A | | | | | | |
| | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.2-1/1 AND A.4.5-3b/11 THEN R ELSE N/A | | | | | | |
| C135 | Void | | | | | | |
| C136 | Void | | | | | | |
| C137 | IF A.4.4-1/62 THEN R ELSE N/A | | | | | | |
| C138 | IF A.4.1-1/6 AND (A.4.4-1/8 OR A.4.4-1/53) AND A.4.4-1/62 AND A.4.5-2/2 THEN R ELSE N/A | | | | | | |
| C139 | IF A.4.1-1/6 AND A.4.4-1/32 AND A.4.2.1.1-1/4 THEN R ELSE N/A | | | | | | |
| C140 | IF A.4.1-1/6 AND [8]A.2/2 THEN R ELSE N/A | | | | | | |
| | IF A.4.4-2/2 AND A.4.4-2/5 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/1 AND A.4.1-1/2 THEN R ELSE N/A | | | | | | |
| C143 | IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-2/1 THEN R ELSE N/A | | | | | | |
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|---------|--|--|--|--|--|--|--|
| C144F | IF A.4.1-1/7 AND A.4.5-1a/7 AND A.4.5-1a/9 AND A.4.5-1a/23 AND A.4.4-1/32 AND A.4.4-1/33 THEN R ELSE | | | | | | |
| 0111 | | | | | | | |
| C144T | IF A.4.1-1/7 AND A.4.5-1b/7 AND A.4.5-1b/9 AND A.4.5-1b/23 AND A.4.4-1/32 AND A.4.4-1/33 THEN R ELSE N/A | | | | | | |
| C145 | IF A.4.4-1/65 THEN R ELSE N/A | | | | | | |
| C146 | IF A.4.1-1/6 AND (A.4.4-1/8 OR A.4.4-1/53) THEN R ELSE N/A | | | | | | |
| C147 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/63 THEN R ELSE N/A | | | | | | |
| C148F | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.5-1a/23 AND A.4.4-1/29 THEN R ELSE N/A | | | | | | |
| C148T | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.5-1b/23 AND A.4.4-1/29 THEN R ELSE N/A | | | | | | |
| C149 | Void | | | | | | |
| C150 | IF A.4.1-1/6 OR (A.4.1-1/6 AND A.4.1-1/7) THEN R ELSE N/A | | | | | | |
| C151 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.3-1/1 THEN R ELSE N/A | | | | | | |
| C152F | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.3-1/1 AND A.4.5-3a/11 THEN R ELSE N/A | | | | | | |
| | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.3-1/1 AND A.4.5-3b/11 THEN R ELSE N/A | | | | | | |
| C153 | IF (A.4.1-1/6 OR A.4.1-1/7) AND A.4.4-2/2 AND A.4.4-1/26 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/1 AND A.4.5-3a/15 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/2 AND A.4.5-3b/15 THEN R ELSE N/A | | | | | | |
| | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.5-3a/12 AND (A.4.4-1/8 OR A.4.4-1/53) AND A.4.5-2/2 | | | | | | |
| 01001 | AND (A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) THEN R ELSE N/A | | | | | | |
| C155T | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.5-3b/12 AND (A.4.4-1/8 OR A.4.4-1/53) AND A.4.5-2/2 | | | | | | |
| 01001 | AND (A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) THEN R ELSE N/A | | | | | | |
| C155aF | TIF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.5-3a/12 AND (A.4.4-1/8 OR A.4.4-1/53) AND A.4.5-2/2 | | | | | | |
| 0 looal | AND A.4.3.3.3-1/1 THEN R ELSE N/A | | | | | | |
| C155aT | TIF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.5-3b/12 AND (A.4.4-1/8 OR A.4.4-1/53) AND A.4.5-2/2 | | | | | | |
| 0.000 | AND A.4.3.3.3-1/1 THEN R ELSE N/A | | | | | | |
| C155bF | TIF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.5-3a/12 AND (A.4.4-1/8 OR A.4.4-1/53) AND A.4.5-2/2 | | | | | | |
| | AND A.4.3.3.2-1/1 THEN R ELSE N/A | | | | | | |
| C155bT | TIF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.5-3b/12 AND (A.4.4-1/8 OR A.4.4-1/53) AND A.4.5-2/2 | | | | | | |
| | AND A.4.3.3.2-1/1 THEN R ELSE N/A | | | | | | |
| C156 | IF A.4.4-1/2 THEN R ELSE N/A | | | | | | |
| C157 | IF A.4.4-1/69 THEN R ELSE N/A | | | | | | |
| C158 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/70 THEN R ELSE N/A | | | | | | |
| C159F | IF A.4.1-1/6 AND A.4.5-1a/27 AND A.4.4-1/33 AND [45] A.12/34 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/6 AND A.4.5-1b/27 AND A.4.4-1/33 AND [45] A.12/34 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/6 AND A.4.5-1a/7 AND A.4.5-1a/8 AND A.4.5-1a/22 AND A.4.5-1a/27 AND A.4.4-1/32 AND A.4.4- | | | | | | |
| | 1/33 AND A.4.4-1/71 THEN R ELSE N/A | | | | | | |
| C160T | IF A.4.1-1/6 AND A.4.5-1b/7 AND A.4.5-1b/8 AND A.4.5-1b/22 AND A.4.5-1b/27 AND A.4.4-1/32 AND A.4.4- | | | | | | |
| | 1/33 AND A.4.4-1/71 THEN R ELSE N/A | | | | | | |
| C161F | IF A.4.1-1/6 AND A.4.5-1a/27 AND A.4.4-1/33 AND A.4.4-1/71 AND [45] A.12/34 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/6 AND A.4.5-1b/27 AND A.4.4-1/33 AND A.4.4-1/71 AND [45] A.12/34 THEN R ELSE N/A | | | | | | |
| C162 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.3-1/1 AND A.4.3.3.3-2/1 THEN R ELSE N/A | | | | | | |
| C163 | IF A.4.1-1/7 AND A.4.4-1/29 AND A.4.4-1/62 THEN R ELSE N/A | | | | | | |
| C164 | IF A.4.4-1/72 AND A.4.4-2/2 THEN R ELSE N/A | | | | | | |
| C165 | IF (A.4.1-1/3) AND (A.4.4-1/62) THEN R ELSE N/A | | | | | | |
| | IF A.4.5-1a/14 THEN R ELSE N/A | | | | | | |
| C166T | | | | | | | |
| 0.001 | | | | | | | |

| C167E | IF A.4.5-1a/14 AND A.4.5-1a/25 THEN R ELSE N/A | | | | | | |
|---------------|---|--|--|--|--|--|--|
| | IF A.4.5-1b/14 AND A.4.5-1b/25 THEN R ELSE N/A | | | | | | |
| | | | | | | | |
| | IF A.4.1-1/6 AND A.4.5-1a/15 THEN R ELSE N/A | | | | | | |
| C1681 C169 | IF A.4.1-1/6 AND A.4.5-1b/15 THEN R ELSE N/A | | | | | | |
| | | | | | | | |
| C170 | IF A.4.1-1/1 AND A.4.4-1/76 THEN R ELSE N/A | | | | | | |
| C171 | IF A.4.1-1/7 AND A.4.4-1/79 THEN R ELSE N/A | | | | | | |
| C172 | IF A.4.2.1.1-1/4 AND A.4.4-1/37 THEN R ELSE N/A | | | | | | |
| C173 | IF A.4.4-1/80 THEN R ELSE N/A | | | | | | |
| C174 | IF A.4.4-1/81 THEN R ELSE N/A | | | | | | |
| C175 | IF A.4.1-1/2 AND A.4.4-1 A /2 THEN R ELSE N/A | | | | | | |
| C176 | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) AND (NOT A.4.3.2-1/1) THEN R ELSE N/A | | | | | | |
| C177 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.3-1/1 AND (NOT A.4.3.2-1/1) THEN R ELSE N/A | | | | | | |
| C178 | IF A.4.4-1/83 THEN R ELSE N/A | | | | | | |
| C179 | IF A.4.4-1/84 THEN R ELSE N/A | | | | | | |
| C180 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.4-1/63 THEN R ELSE N/A | | | | | | |
| C181 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/85 THEN R ELSE N/A | | | | | | |
| C182 | IF A.4.1-1/6 AND [8]A.2/2 AND (NOT A.4.2.1.1-1/4) THEN R ELSE N/A | | | | | | |
| C183 | IF A.4.4-1/33 THEN R ELSE N/A | | | | | | |
| C184 | IF (A.4.1-1/1 AND A.4.1-2/1) OR (A.4.1-1/2 AND A.4.1-2/2) THEN R ELSE N/A | | | | | | |
| C185F | IF (A.4.5-1a/13 AND A.4.5-1a/25) AND ((A.4.1-1/1 AND A.4.1-2/1) OR (A.4.1-1/2 AND A.4.1-2/2)) THEN R | | | | | | |
| | ELSE N/A | | | | | | |
| C185T | IF (A.4.5-1b/13 AND A.4.5-1b/25) AND ((A.4.1-1/1 AND A.4.1-2/1) OR (A.4.1-1/2 AND A.4.1-2/2)) THEN R | | | | | | |
| | ELSE N/A | | | | | | |
| | IF A.4.5-1a/25 AND ((A.4.1-1/1 AND A.4.1-2/1) OR (A.4.1-1/2 AND A.4.1-2/2)) THEN R ELSE N/A | | | | | | |
| | IF A.4.5-1b/25 AND ((A.4.1-1/1 AND A.4.1-2/1) OR (A.4.1-1/2 AND A.4.1-2/2)) THEN R ELSE N/A | | | | | | |
| | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/86 THEN R ELSE N/A | | | | | | |
| C188 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/87 THEN R ELSE N/A | | | | | | |
| | IF A.4.5-1a/31THEN R ELSE N/A | | | | | | |
| | IF A.4.5-1b/31THEN R ELSE N/A | | | | | | |
| | F IF A.4.5-1a/31 AND [8]A.1/1 THEN R ELSE N/A | | | | | | |
| C189aT | IF A.4.5-1b/31 AND [8]A.1/1 THEN R ELSE N/A | | | | | | |
| C190 | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) AND (A.4.3.3.1-2/1 OR A.4.3.3.1-2/2) AND | | | | | | |
| | A.4.4-1 A /3 THEN R ELSE N/A | | | | | | |
| C191 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.3-1/1 AND A.4.3.3.3-2/1 AND A.4.4-1 A /3 THEN R ELSE N/A | | | | | | |
| C192 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.2-1/1 AND A.4.3.3.2-2/1 AND A.4.4-1 A /3 THEN R ELSE N/A | | | | | | |
| C193F | IF A.4.1-1/7 AND A.4.5-1a/7 AND A.4.5-1a/9 AND A.4.5-1a/23 AND A.4.4-1/32 AND A.4.4-1/33 AND [45] | | | | | | |
| | A.12/34 THEN R ELSE N/A | | | | | | |
| C193T | IF A.4.1-1/7 AND A.4.5-1b/7 AND A.4.5-1b/9 AND A.4.5-1b/23 AND A.4.4-1/32 AND A.4.4-1/33 AND [45] | | | | | | |
| | A.12/34 THEN R ELSE N/A | | | | | | |
| C194 | IF A.4.4-1 A /4 THEN R ELSE N/A | | | | | | |
| C195 | IF A.4.4-1/83 AND A.4.4-1/90 THEN R ELSE N/A | | | | | | |
| C196 | IF A.4.4-1/19 AND A.4.4-1/54 AND A.4.4-1/83 AND A.4.4-1/90 THEN R ELSE N/A | | | | | | |
| C197 | IF A.4.4-1 A /4 AND A.4.4-1/91 THEN R ELSE N/A | | | | | | |
| | | | | | | | |

| C198F | IF A.4.1-1/7 AND A.4.5-1a/7 AND A.4.5-1a/9 AND A.4.5-1a/23 AND A.4.4-1/32 AND A.4.4-1/33 AND [45] | | | | | | |
|-------|--|--|--|--|--|--|--|
| | A.12/36 THEN R ELSE N/A | | | | | | |
| C198T | IF A.4.1-1/7 AND A.4.5-1b/7 AND A.4.5-1b/9 AND A.4.5-1b/23 AND A.4.4-1/32 AND A.4.4-1/33 AND [45] | | | | | | |
| | | | | | | | |
| C199F | IF A.4.1-1/7 AND A.4.5-1a/7 AND A.4.5-1a/9 AND A.4.5-1a/23 AND A.4.4-1/32 AND A.4.4-1/33 AND A.4.4-1/71 | | | | | | |
| | AND [45] A.12/36 THEN R ELSE N/A | | | | | | |
| C199T | IF A.4.1-1/7 AND A.4.5-1b/7 AND A.4.5-1b/9 AND A.4.5-1b/23 AND A.4.4-1/32 AND A.4.4-1/33 AND A.4.4-1/71 | | | | | | |
| | AND [45] A.12/36 THEN R ELSE N/A | | | | | | |
| C200F | IF A.4.1-1/7 AND A.4.5-1a/7 AND A.4.5-1a/9 AND A.4.5-1a/23 AND A.4.4-1/32 AND A.4.4-1/33 AND A.4.4-1/71 | | | | | | |
| 0000T | AND [45] A.12/34 THEN R ELSE N/A | | | | | | |
| C2001 | IF A.4.1-1/7 AND A.4.5-1b/7 AND A.4.5-1b/9 AND A.4.5-1b/23 AND A.4.4-1/32 AND A.4.4-1/33 AND A.4.4-1/71 | | | | | | |
| 00045 | AND [45] A.12/34 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/6 AND A.4.5-1a/27 AND A.4.4-1/33 AND [45] A.12/36 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/6 AND A.4.5-1b/27 AND A.4.4-1/33 AND [45] A.12/36 THEN R ELSE N/A | | | | | | |
| | IF A.4.1-1/6 AND A.4.5-1a/27 AND A.4.4-1/33 AND A.4.4-1/71 AND [45] A.12/36 THEN R ELSE N/A | | | | | | |
| C202T | IF A.4.1-1/6 AND A.4.5-1b/27 AND A.4.4-1/33 AND A.4.4-1/71 AND [45] A.12/36 THEN R ELSE N/A | | | | | | |
| C203 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/62 AND A.4.4-1/63 THEN R ELSE N/A | | | | | | |
| C204 | IF A.4.4-1/30 AND A.4.4-1/83 AND A.4.4-1/90 THEN R ELSE N/A | | | | | | |
| C205 | IF A.4.1-1/6 AND (A.4.4-1/8 OR A.4.4-1/53) AND A.4.4-1/94 THEN R ELSE N/A | | | | | | |
| C206F | IF A.4.1-1/7 AND A.4.5-1a/5 AND A.4.5-1d/2 AND A.4.5-1a/23 THEN R ELSE N/A | | | | | | |
| C206T | IF A.4.1-1/7 AND A.4.5-1b/5 AND A.4.5-1e/2 AND A.4.5-1b/23 THEN R ELSE N/A | | | | | | |
| C207 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.2-1/1 AND A.4.3.3.2-2/1 THEN R ELSE N/A | | | | | | |
| C208 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1A/1 THEN R ELSE N/A | | | | | | |
| C209 | IF A.4.4-1/33 AND (A.4.4-2/14 OR A.4.4-2/15) THEN R ELSE N/A | | | | | | |
| C210 | IF A.4.4-1/33 AND (A.4.4-2/11 OR A.4.4-2/13) THEN R ELSE N/A | | | | | | |
| C211 | IF A.4.4-1/33 AND A.4.4-2/14 THEN R ELSE N/A | | | | | | |
| C212 | IF A.4.4-1/97 THEN R ELSE N/A | | | | | | |
| C213 | IF A.4.4-1/98 THEN R ELSE N/A | | | | | | |
| C214 | IF A.4.1-1/7 AND NOT A.4.4-1/98 THEN R ELSE N/A | | | | | | |
| C215 | IF (A.4.4-1/99) THEN R ELSE N/A | | | | | | |
| C216F | IF A.4.5-1a/4 AND A.4.5-1a/5 THEN R ELSE N/A | | | | | | |
| C216T | IF A.4.5-1b/4 AND A.4.5-1b/5 THEN R ELSE N/A | | | | | | |
| C217 | IF A.4.1-1/6 AND A.4.4-1/33 AND [45]A.12/40 THEN R ELSE N/A | | | | | | |
| C218 | IF A.4.1-1/6 AND A.4.4-1/33 AND [45]A.12/40 AND [45]A.12/41 THEN R ELSE N/A | | | | | | |
| C219 | IF A.4.1-1/7 AND A.4.4-1/33 AND [45]A.12/40 THEN R ELSE N/A | | | | | | |
| C220 | IF A.4.1-1/7 AND A.4.4-1/33 AND [45]A.12/40 AND [45]A.12/41 THEN R ELSE N/A | | | | | | |
| C221 | IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) OR A.4.3.3.2-1/1 OR A.4.3.3.3-1/1) AND | | | | | | |
| | A.4.4-1/101 AND (NOT A.4.4-1/102)) THEN R ELSE N/A | | | | | | |
| C222 | IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.3.3.1-1/1 OR A.4.3.3.1-1/2) OR A.4.3.3.2-1/1 OR A.4.3.3.3-1/1) AND | | | | | | |
| | A.4.4-1/101 AND A.4.4-1/102) THEN R ELSE N/A | | | | | | |
| C223 | IF [45]A.3A/50 AND [45]A.4/2B AND [45]A.15/3 THEN R ELSE N/A | | | | | | |
| C224 | IF A.4.3.2-2/1 THEN R ELSE N/A | | | | | | |
| C224a | IF NOT A.4.3.2-2/1 THEN R ELSE N/A | | | | | | |
| C225 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/8 AND A.4.4-1/30 THEN R ELSE N/A | | | | | | |
| | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.3.1-1/1 OR A.4.3.3.1-1/2 OR A.4.3.3.2-1/1 OR A.4.3.3.3-1/1) AND | | | | | | |
| | A.4.2.1.1-1/8 AND A.4.4-1/30 THÈN R ELSE N/A | | | | | | |
| | | | | | | | |

| C226 | IF A.4.4-1/106 THEN R ELSE N/A |
|-------|--|
| C227 | IF A.4.4-1/51 AND A.4.4-1/107 AND A.4.5-1a/7 THEN R ELSE N/A |
| C228 | IF A.4.4-1/51 AND NOT A.4.3.2-2/1 THEN R ELSE N/A |
| C228a | IF A.4.4-1/51 AND A.4.3.2-2/1 THEN R ELSE N/A |
| C229 | IF A.4.1-1/1 AND NOT A.4.5-1a/31THEN R ELSE N/A |
| C230 | IF A.4.1-1/2 AND NOT A.4.5-1b/31THEN R ELSE N/A |
| C231 | IF A.4.1-1/7 AND A.4.4-1/32 AND A.4.2.1.1-1/4 THEN R ELSE N/A |
| C232 | IF A.4.1-1/6 AND A.4.4-1/33 AND [45]A.12/40 AND A.4.4-1/30 THEN R ELSE N/A |
| C233 | IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.3.3-1/2 AND A.4.3.3-2/2 AND (A.4.4-1/108 AND/OR A.4.4-1/109) AND |
| | A.4.4-1A/3 THEN R ELSE N/A |
| C234 | IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.3.3-1/1 AND A.4.3.3-2/1 AND A.4.4-1/108 THEN R ELSE N/A |
| C235 | IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.3.3-1/1 AND A.4.3.3-2/1 AND A.4.4-1/109 THEN R ELSE N/A |
| C236 | IF [45]A.3A/50 AND [45]A.4/2B AND [45]A.15/1 THEN R ELSE N/A |
| C237 | IF [45]A.3A/50 AND [45]A.4/2B AND [45]A.15/1 AND [45]A.15/3 THEN R ELSE N/A |
| C238 | IF A.4.4-1/110 THEN R ELSE N/A |
| C239 | IF A.4.4-1/106 AND A.4.4-1/111 THEN R ELSE N/A |
| C240 | IF A.4.4-1/111 THEN R ELSE N/A |
| C241 | IF A.4.4-1/112 THEN R ELSE N/A |
| C242 | IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.3-1/1 AND A.4.3.3.3-2/2 THEN R ELSE N/A |
| C243 | IF (A.4.4-1/111 AND A.4.4-1/113) THEN R ELSE N/A |
| C244 | IF A.4.2.1.1-1/9 THEN R ELSE N/A |
| C245 | IF A.4.2.1.1-1/10 THEN R ELSE N/A |
| C246 | IF A.4.2.1.1-1/9 AND A.4.2.1.1-1/10 THEN R ELSE N/A |
| C247 | IF A.4.4-2/1 AND A.4.4-1/115 THEN R ELSE N/A |
| C248 | IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.2-1/11 OR A.4.3.2-1/12 OR A.4.3.2-2/6 OR A.4.3.2-2/7 OR A.4.3.2-2/8 |
| | OR A.4.3.2-2/9 OR A.4.3.2-2/10 OR A.4.3.2-2/11) AND A.4.4-1/116 THEN R ELSE N/A |
| C249 | IF (A.4.1-1/6 OR A.4.1-1/7) AND A.4.4-1/33 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 THEN R ELSE N/A |
| | |

Table 4-1b: Number of TC Executions – Notes

| Note 1: | The TC contains multi-RAT branches not all mandatory in the scope of the TC. The E-UTRA/EPC branch will be executed always; the TC will go through any other RAT branch depending on the UE capability. Execution only of the E-UTRA/EPC branch regardless of the UE capabilities can also be imposed by setting the IXIT px_RATComb_Tested= EUTRA_only. For UEs supporting both UTRA AND GERAN the TC should be executed once only for the E-UTRA/EPC AND UTRA combination by setting the px_RATComb_Tested= EUTRA_UTRA. |
|----------|---|
| Note 2: | The TC contains multi-RAT branches mandatory in the scope of the TC. The TC shall be executed once per supported by the UE RAT combination i.e. once if the UE supports E-UTRA/EPC AND UTRA, or, once if the UE supports E-UTRA/EPC AND GERAN. For UEs supporting both UTRA AND GERAN the TC should be executed once only for the E-UTRA/EPC AND UTRA combination by setting the px_RATComb_Tested= EUTRA_UTRA. |
| Note 3: | This TC can optionally be executed by Rel-8 UE and onwards till the release indicated in the Release column. |
| Note 4: | The two TCs verify the same core spec requirement(s) however in a different cell configuration to address different network deployments i.e. with different cells operating on multiple (different) or single (the same) frequency. It is recommended that the multi frequency test should be run by default. For exceptions to this recommendation depending on the band of operation see TS 36.523-3 [20] section 11. |
| Note 5: | For UEs that can be configured in at least one of the CS/PS modes (CS/PS mode 1 or CS/PS mode 2), AND, at least one of the PS modes (PS mode 1 or PS mode 2), this TC shall be run with the UE configured either in PS mode 1 or PS mode 2. Otherwise not all of the test"s TPs will be verified. |
| Note 6: | For UEs that can be configured in both CS/PS modes (CS/PS mode 1 and CS/PS mode 2), OR, both PS modes (PS mode 1 and PS mode 2), this TC shall be run 2 times: once per configurable mode. Otherwise not all of the test"s TPs will be verified. (Example: if the UE can be configured in CS/PS mode 1 and CS/PS mode 2 then the test case should be run once with UE configured in CS/PS mode 1 and once configured in CS/PS mode 2). |
| Note 7: | This TC can optionally be executed by Rel-9 UE and onwards till the release indicated in the Release column. |
| Note 8: | The two TCs verify the same core spec requirement(s) however in a different cell configuration to address different network deployments i.e. with different cells where the neighbour cell is operating on an inter- frequency or inter-band frequency. It is recommended that the inter-frequency test should be run by default. For exceptions to this recommendation depending on the band of operation see TS 36.523-3 [20] section 11. |
| Note 9: | The two TCs verify the same core spec requirement(s) however in a different cell configuration to address different network deployments i.e. with different cells operating on UTRA interRAT or GERAN interRAT. It is recommended that the UTRA interRAT test should be run by default. |
| Note 10: | As per TS 36.306, clause 4.1, check for support of category 2 to 5 is sufficient to check support for category 6 or higher. |
| Note 11: | Test case is not intended to be run in FDD-TDD CA combination. FDD-TDD combination is covered in Test cases 7.1.3.11.4 and 7.1.3.11.5. |
| Note 12: | For UEs supporting IMS, the test case shall be executed with pc_multiple_PDN= FALSE AND pc_Provide_Internet_as_second_APN= FALSE AND pc_Provide_IMS_as_second_APN= FALSE. |

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

Notwithstanding the provisions of the copyright clause 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 [25].

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:

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 | 36.101 | Rel-8 | pc_eFDD | |
| 2 | E-UTRA TDD | 36.101 | Rel-8 | pc_eTDD | |
| 3 | HRPD | C.S0024-A | Rel-8 | pc_HRPD | |
| 4 | 1xRTT | C.S0002-A | Rel-8 | pc_1xRTT | |
| 5 | WLAN | IEEE Std 80 | | pc_eWLAN | |
| | | 2.11 | | | |
| 6 | UTRA | 21.904, 5 | R99 | pc_UTRA | |
| 7 | GERAN | 21.904, 5 | R99 | pc_GERAN | |

| ltem | UE Functionality | Ref. | Release | Mnemonic | Comments |
|------|---|-------------|---------|-------------------|----------|
| 1 | Support of multiple E-UTRA FDD bands | 36.101, 5.5 | Rel-8 | pc_eFDD_MultiBand | |
| 2 | Support of multiple E-UTRA TDD bands | 36.101, 5.5 | Rel-8 | pc_eTDD_MultiBand | |

Table A.4.1-2: UE general functionality

A.4.2 UE Service Capabilities

A.4.2.1 3GPP Standardised UE Service Capabilities

A.4.2.1.1 Bearer Services

Table A.4.2.1.1-1: Definition of Bearer Services

| ltem | Definition of Bearer Services | Ref. | Release | Mnemonic | Comments |
|------|--|---------------------------------|---------|------------------------------|--|
| 1 | Support of CS fallback | 24.301 | Rel-8 | pc_CS_fallback | The UE supports CS fallback for voice calls. If true, [8] pc_CS and at least one of pc_FDD, pc_TDD_HCR, pc_TDD_UCR, pc_TDD_VHCR or pc_UMTS_GSM is also true. If pc_CS_fallback is true, pc_SMS_SGs shall be set to true A UE with the voice domain preference set to (CS Voice only) or (IMS PS voice preferred, CS Voice as secondary) or (CS voice preferred, IMS PS Voice as secondary) shall set this PICS to true. |
| 2 | Support of SMS over SGs | 24.301 | Rel-8 | pc_SMS_SGs | The UE supports SMS over SGs and is configured for SMS over SGs. If it is set to true, at least one of pc_SMS_SGs_MT and pc_SMS_SGs_MO is true. If it is set to true, pc_combined_attac h shall be set to true |
| 3 | Support of 1xCS fallback | 24.301 | Rel-8 | pc_1xCSfallback | |
| 4 | Support of IMS emergency call | 22.101 | Rel-9 | pc_IMS_emergency_c all | For Rel-9 or later releases: mandatory for UEs which supports IMS speech. |
| 5 | Support of eMBMS | 36.331 | Rel-9 | pc_eMBMS | The UE supports eMBMS. |
| 6 | Support of Enhanced 1xCS fallback | 23.272 | Rel-9 | pc_Enhanced_1xCSfal lback | |
| 7 | Support of eMBMS service continuity | 36.306, 6.3.1 (Note 2) | Rel-11 | pc_eMBMS_SC | The UE supports eMBMS service continuity. |
| 8 | Supports Offload to/from WLAN and supports S2b | 36.304, 5.6.2 24.302, 6.10.4 | Rel-12 | pc_E- UTRA_WLAN_offload | |

| 9 | Support of DC Split DRB | 36.306, 4.3.20.1 | Rel-12 | pc_DC _Split_DRB | The UE supports dual connectivity and DRB type of Split bearer. | |
|---------|--|---------------------|--------|------------------|--|--|
| 10 | Support of DC SCG DRB | 36.306, 4.3.20.2 | Rel-12 | pc_DC _SCG_DRB | The UE supports dual connectivity and DRB type of SCG bearer. | |
| Note 1: | e 1: A UE may support one or more of bearer service 1, 2, 3, 4 or 5. | | | | | |
| Note 2: | | | | | | |

A.4.3 Baseline Implementation Capabilities

Table A.4.3-1: Supported protocols

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

Table A.4.3-2: Special Conformance Testing Functions

| Item | Special Conformance Testing Functions | Ref. | Release | Mnemonic | Comments |
|------|--|----------------|---------|-------------------------------------|----------|
| 1 | UE test loop | 36.509 | Rel-8 | | |
| 2 | Max UE test loop UL RLC SDU size 65535 bits | 36.509 | Rel-8 | | |
| 3 | Update UE Location Information | 36.509, cl 5.1 | Rel-10 | pc_UpdateUE_Loca tionInformation | |

A.4.3.1 RF Baseline Implementation Capabilities

NOTE: The values indicated in column "Release" in tables A.4.3.1-1 and A.4.3.1-2 below 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 [30].

| ltem | FDD (DS) RF Baseline Implementation Capabilities | Ref. | Release | Mnemonic | Comments |
|------|--|--------------|---------|-----------------|----------|
| 1 | Frequency band: 1920-1980, 2110-2170 MHz | 36.101, 5.5 | Rel-8 | pc_eBand1_Supp | Band 1 |
| 2 | Frequency band: 1850-1910, 1930-1990 MHz | 36.101, 5.5 | Rel-8 | pc_eBand2_Supp | Band 2 |
| 3 | Frequency band: 1710-1785, 1805-1880 MHz | 36.101, 5.5 | Rel-8 | pc_eBand3_Supp | Band 3 |
| 4 | Frequency band: 1710-1755, 2110-2155 MHz | 36.101, 5.5 | Rel8 | pc_eBand4_Supp | Band 4 |
| 5 | Frequency band: 824–849, 869-894 MHz | 36.101, 5.5 | Rel-8 | pc_eBand5_Supp | Band 5 |
| 6 | Frequency band: 830-840, 875-885 MHz | 36.101, 5.5 | Rel-8 | pc_eBand6_Supp | Band 6 |
| 7 | Frequency band: 2500-2570, 2620-2690 MHz | 36.101, 5.5 | Rel-8 | pc_eBand7_Supp | Band 7 |
| 8 | Frequency band: 880-915, 925-960 MHz | 36.101, 5.5 | Rel-8 | pc_eBand8_Supp | Band 8 |
| 9 | Frequency band: 1749.9-1784.9, 1844.9- 1879.9 MHz | 36.101, 5.5 | Rel-8 | pc_eBand9_Supp | Band 9 |
| 10 | Frequency band: 1710-1770, 2110-2170 MHz | 36.101, 5.5 | Rel-8 | pc_eBand10_Supp | Band 10 |
| 11 | Frequency band: 1427.9-1452.9, 1475.9- 1500.9 MHz | 36.101, 5.5 | Rel-8 | pc_eBand11_Supp | Band 11 |
| 12 | Frequency band: 699-716, 729-746 MHz | 36.101, 5.5 | Rel-8 | pc_eBand12_Supp | Band 12 |
| 13 | Frequency band: 777-787, 746-756 MHz | 36.101, 5.5 | Rel-8 | pc_eBand13_Supp | Band 13 |
| 14 | Frequency band: 788-798, 758-768 MHz | 36.101, 5.5 | Rel-8 | pc_eBand14_Supp | Band 14 |
| 15 | Reserved | | | | |
| 16 | Reserved | | | | |
| 17 | Frequency band: 704-716, 734-746 MHz | 36.101, 5.5 | Rel-8 | pc_eBand17_Supp | |
| 18 | Frequency band: 815-830, 860-875 MHz | 36.101, 5.5 | Rel-9 | pc_eBand18_Supp | |
| | Frequency band: 830-845, 875-890 MHz | 36.101, 5.5 | Rel-9 | pc_eBand19_Supp | |
| 20 | Frequency band: 832-862, 791-821 MHz | 36.101, 5.5 | Rel-9 | pc_eBand20_Supp | Band 20 |
| 21 | Frequency band: 1447.9-1462.9, 1495.9- 1510.9 MHz | 36.101, 5.5 | Rel-9 | pc_eBand21_Supp | Band 21 |
| 22 | Frequency band: 3410-3490, 3510-3590 MHz | 36.101, 5.5 | Rel-10 | pc_eBand22_Supp | Band 22 |
| 23 | Frequency band: 2000-2020, 2180-2200 MHz | 36.101, 5. 5 | Rel-10 | pc_eBand23_Supp | Band 23 |
| 24 | Frequency band: 1626.5-1660.5, 1525- 1559 MHz | 36.101, 5. 5 | Rel-10 | pc_eBand24_Supp | Band 24 |
| 25 | Frequency band: 1850-1915, 1930-1995 MHz | 36.101, 5. 5 | Rel-10 | pc_eBand25_Supp | Band 25 |
| 26 | | 36.101, 5. 5 | Rel-11 | pc_eBand26_Supp | Band 26 |
| 27 | Frequency band: 807-824, 852-869 MHz | 36.101, 5.5 | Rel-11 | pc_eBand27_Supp | Band 27 |
| 28 | Frequency band: 703-748, 758-803 MHz | 36.101, 5. 5 | Rel-11 | pc_eBand28_Supp | Band 28 |
| 29 | Frequency band: N/A, 717-728 MHz | 36.101, 5.5 | Rel-11 | pc_eBand29_Supp | Band 29 |
| 30 | Frequency band: 2305-2315, 2350-2360 MHz | 36.101, 5.5 | Rel-12 | pc_eBand30_Supp | Band 30 |
| 31 | Frequency band: 452.5-457.5, 462.5-467.5 MHz | 36.101, 5. 5 | Rel-12 | pc_eBand31_Supp | Band 31 |
| 32 | Frequency band: N/A, 1452-1496 MHz | 36.101, 5. 5 | Rel-12 | pc_eBand32_Supp | Band 32 |

Table A.4.3.1-1: FDD RF Baseline Implementation Capabilities

| Item | TDD RF Baseline Implementation | Ref. | Release | Mnemonic | Comments |
|------|--------------------------------|-------------|---------|-----------------|----------|
| | Capabilities | | | | |
| 1 | Frequency band: 1900-1920 MHz | 36.101, 5.5 | Rel-8 | pc_eBand33_Supp | Band 33 |
| 2 | Frequency band: 2010- 2025 MHz | 36.101, 5.5 | Rel-8 | pc_eBand34_Supp | Band 34 |
| 3 | Frequency band: 1850-1910 MHz | 36.101, 5.5 | Rel-8 | pc_eBand35_Supp | Band 35 |
| 4 | Frequency band: 1930-1990 MHz | 36.101, 5.5 | Rel-8 | pc_eBand36_Supp | Band 36 |
| 5 | Frequency band: 1910-1930 MHz | 36.101, 5.5 | Rel-8 | pc_eBand37_Supp | Band 37 |
| 6 | Frequency band: 2570-2620 MHz | 36.101, 5.5 | Rel-8 | pc_eBand38_Supp | Band 38 |
| 7 | Frequency band: 1880-1920 MHz | 36.101, 5.5 | Rel-8 | pc_eBand39_Supp | Band 39 |
| 8 | Frequency band: 2300-2400 MHz | 36.101, 5.5 | Rel-8 | pc_eBand40_Supp | Band 40 |
| 9 | Frequency band: 2496-2690 MHz | 36.101, 5.5 | Rel-10 | pc_eBand41_Supp | Band 41 |
| 10 | Frequency band: 3400-3600 MHz | 36.101, 5.5 | Rel-10 | pc_eBand42_Supp | Band 42 |
| 11 | Frequency band: 3600-3800 MHz | 36.101, 5.5 | Rel-10 | pc_eBand43_Supp | Band 43 |
| 12 | Frequency band: 703-803 MHz | 36.101, 5.5 | Rel-11 | pc_eBand44_Supp | Band 44 |

Table A.4.3.1-2: TDD RF Baseline Implementation Capabilities

A.4.3.2 Physical Layer Baseline Implementation Capabilities

| ltem | UE Category | Ref. | Release | Mnemonic | Comments |
|------|-------------|-------------|---------|------------------|----------|
| 1 | Category 1 | 36.306, 4.1 | Rel-8 | pc_ue_Category_1 | |
| 2 | Category 2 | 36.306, 4.1 | Rel-8 | pc_ue_Category_2 | |
| 3 | Category 3 | 36.306, 4.1 | Rel-8 | pc_ue_Category_3 | |
| 4 | Category 4 | 36.306, 4.1 | Rel-8 | pc_ue_Category_4 | |
| 5 | Category 5 | 36.306, 4.1 | Rel-8 | pc_ue_Category_5 | |
| 6 | Categroy 6 | 36.306, 4.1 | Rel-10 | pc_ue_Category_6 | |
| 7 | Categroy 7 | 36.306, 4.1 | Rel-10 | pc_ue_Category_7 | |
| 8 | Category 8 | 36.306, 4.1 | Rel-10 | pc_ue_Category_8 | |
| 9 | Category 9 | 36.306, 4.1 | Rel-11 | pc_ue_Category_9 | |
| 10 | Category 10 | 36.306, 4.1 | Rel-11 | pc_ue_Category_1 | |
| | | | | 0 | |
| 11 | Category 11 | 36.306, 4.1 | Rel-11 | pc_ue_Category_1 | |
| | | | | 1 | |
| 12 | Category 12 | 36.306, 4.1 | Rel-11 | pc_ue_Category_1 | |
| | | | | 2 | |

Table A.4.3.2-1: UE Category

| Item | UE Category | Ref. | Release | Mnemonic | Comments |
|------|----------------|--------------|---------|-------------------------|--|
| 1 | Category DL 0 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryDL _0 | Only in combination with Category UL 0 |
| 2 | Category DL 6 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryDL _6 | Only in combination with Category UL 5 |
| 3 | Category DL 7 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryDL _7 | Only in combination with Category UL 13 |
| 4 | Category DL 9 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryDL _9 | Only in combination with Category UL 5 |
| 5 | Category DL 10 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryDL _10 | Only in combination with Category UL 13 |
| 6 | Category DL 11 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryDL _11 | Only in combination with Category UL 5 |
| 7 | Category DL 12 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryDL _12 | Only in combination with Category UL 13 |
| 8 | Category DL 13 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryDL _13 | Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13 |
| 9 | Category DL 14 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryDL _14 | Only in combination with Category UL 8 |
| 10 | Category DL 15 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryDL _15 | Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13 |
| 11 | Category DL 16 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryDL _16 | Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13 |

Table A.4.3.2-2: UE Downlink Category

| Item | UE Category | Ref. | Release | Mnemonic | Comments |
|------|----------------|--------------|---------|------------------|---------------------|
| 1 | Category UL 0 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryUL | Only in combination |
| | - · · · - | | | 0 | with Category DL 0 |
| 2 | Category UL 3 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryUL | Only in combination |
| | | | | _3 | with Category DL |
| | | | | | 13, Category DL 15 |
| | | | | | or Category DL 16 |
| 3 | Category UL 5 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryUL | Only in combination |
| | | | | _5 | with Category DL 6, |
| | | | | | Category DL 9, |
| | | | | | Category DL 11, |
| | | | | | Category DL 13, |
| | | | | | Category DL 15 or |
| | | | | | Category DL 16 |
| 4 | Category UL 7 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryUL | Only in combination |
| | | | | _7 | with Category DL |
| | | | | | 13, Category DL 15 |
| | | | | | or Category DL 16 |
| 5 | Category UL 8 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryUL | Only in combination |
| | | | | _8 | with Category DL |
| | | | | | 14 |
| 6 | Category UL 13 | 36.306, 4.1A | Rel-12 | pc_ue_CategoryUL | Only in combination |
| | | | | _13 | with Category DL 7, |
| | | | | | Category DL 10, |
| | | | | | Category DL 12, |
| | | | | | Category DL 13, |
| | | | | | Category DL 15 or |
| | | | | | Category DL 16 |

A.4.3.3 CA Physical Layer Baseline Implementation Capabilities

Table A.4.3.3-1: Downlink CA capabilities (for one or more of the supported CA configurations in Tables A.4.3.3.1-3, A.4.3.3.2-3, A.4.3.3.3-3, A.4.3.3.3-4)

| ltem | Bandwidth Class | Ref. | Comments |
|------|-----------------------|---------------|----------|
| 1 | DL CA with 2 carriers | 36.101, 5.6A | |
| | | 36.331, 6.3.6 | |
| 2 | DL CA with 3 carriers | 36.101, 5.6A | |
| | | 36.331, 6.3.6 | |

Table A.4.3.3-2: Uplink CA capabilities (for one or more of the supported CA configurations in Tables A.4.3.3.1-3, A.4.3.3.2-3, A.4.3.3.3-3, A.4.3.3.3-4)

| Item | Bandwidth Class | Ref. | Comments |
|------|-----------------------|-------------------------------|---|
| 1 | UL CA with 2 carriers | 36.101, 5.6A 36.331, 6.3.6 | |
| 2 | UL CA with 3 carriers | 36.331, 6.3.6 | Not used in any valid CA configurations in TS 36.101 yet |

A.4.3.3.1 Intra-band contiguous CA Physical Layer Baseline Implementation Capabilities

Table A.4.3.3.1-1: Downlink Intra-band contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.3.3.1-3)

| Item | Bandwidth Class | Ref. | Mnemonic | Comments |
|------|--------------------------------------|---------------|-------------------|----------|
| 1 | DL Intra-band contiguous CA BW Class | 36.101, 5.6A | pc_DL_intraBand_c | |
| | В | 36.331, 6.3.6 | ontCaBWclassB | |
| 2 | DL Intra-band contiguous CA BW Class | 36.101, 5.6A | pc_DL_intraBand_c | |
| | C | 36.331, 6.3.6 | ontCaBWclassC | |

Table A.4.3.3.1-2: Uplink Intra-band contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.3.3.1-3)

| Item | Bandwidth Class | Ref. | Mnemonic | Comments |
|------|--------------------------------------|---------------|-------------------|-------------------|
| 1 | UL Intra-band contiguous CA BW Class | 36.101, 5.6A | | Not used in any |
| | В | 36.331, 6.3.6 | | valid CA |
| | | | | configurations in |
| | | | | TS 36.101 yet |
| 2 | UL Intra-band contiguous CA BW Class | 36.101, 5.6A | pc_UL_intraBand_c | |
| | C | 36.331, 6.3.6 | ontCaBWclassC | |

Table A.4.3.3.1-3: Supported CA configurations for Intra-band contiguous CA

| E-UTRA | CA configuration / Item (Note 1) | Release | Supported | Supported CA Bandwidth Class(es) in UL (Note 2) | Supported Bandwidth Combination Set(s) (Note 3) | |
|---------|---|----------------|-----------|---|---|--|
| CA_1C | | Rel-10 | | | | |
| CA_2C | | Rel-12 | | | | |
| CA_3C | | Re-12 | | | | |
| CA_7C | | Rel-11 | | | | |
| CA_12B | | Rel-12 | | | | |
| CA_23B | | Rel-12 | | | | |
| CA_27B | | Rel-12 | | | | |
| CA_38C | | Rel-11 | | | | |
| CA_39C | | Rel-12 | | | | |
| CA_40C | | Rel-10 | | | | |
| CA_40D | | Rel-12 | | | | |
| CA_41C | | Rel-11 | | | | |
| CA_41D | | Rel-12 | | | | |
| CA_42C | | Rel-12 | | | | |
| Note 1: | indicates CA operation | on on E-UTR | Ă bar | nd 1 with DL CA Bandwidth Class C | | |
| Note 2: | The UL CA capabilities as per Table A.4.6-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 36.101 [2] Table 5.6A.1-1. For this release of specification valid choices are "N", "XB" and "XC", where X is the band. For example, for CA_1C, N would mean only DL CA, "1C" would mean both DL and UL CA. | | | | | |
| Note 3: | The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-1. | | | | | |
| Note 4: | Reference to all item | s is 36.101, 5 | 5.6A a | and 36.331, 6.3.6. | | |

A.4.3.3.2 Intra-band non-contiguous CA Physical Layer Baseline Implementation Capabilities

Table A.4.3.3.2-1: Downlink Intra-band non-contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.3.3.2-3)

| Item | Bandwidth Class Combination | Ref. | Mnemonic | Comments |
|------|------------------------------------|---------------|-------------------|----------|
| | DL Intra-band non-contiguous CA BW | | pc_DL_intraBand_n | |
| | Class Combination A-A | 36.331, 6.3.6 | onContCaBwClass | |
| | | | Comb_AA | |

Table A.4.3.3.2-2: Uplink Intra-band non-contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.3.3.2-3)

| Item | Bandwidth Combination class | Ref. | Mnemonic | Comments |
|------|------------------------------------|---------------|-------------------|----------|
| | UL Intra-band non-contiguous CA BW | | pc_UL_intraBand_n | |
| | Combination class A-A | 36.331, 6.3.6 | onContCaBwClass | |
| | | | Comb_AA | |

Table A.4.3.3.2-3: Supported CA configurations for Intra-band non-contiguous CA

| E-UTRA | CA configuration / Item (Note 1) | Release | Supported | Supported CA Bandwidth Class(es) in UL (Note 2) | Supported Bandwidth Combination Set(s) (Note 3) | |
|--------------------|--|----------------|-----------|---|---|--|
| CA_2A-2A | ۱. | Rel-12 | | | | |
| CA_3A-3A | l l | Rel-12 | | | | |
| CA_4A-4A | ١ | Rel-12 | | | | |
| CA_7A-7A | l l | Rel-12 | | | | |
| CA_23A-2 | 3A | Rel-12 | | | | |
| CA_25A-2 | 25A | Rel-11 | | | | |
| CA_41A-4 | 1A | Rel-11 | | | | |
| CA_41A-4 | 1C | Rel-12 | | | | |
| CA_41C-4 | 1A | Rel-12 | | | | |
| CA_42A-4 | | Rel-12 | | | | |
| Note 1: Note 2: | Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-3, e.g. "CA_2A- 2A" indicates CA intra-band non-contiguous operation on E-UTRA band 2 with DL CA Bandwidth Class A-A. The UL CA capabilities as per Table A.4.6-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 36.101 [2] Table 5.6A.1-3. For this release of specification valid choices are "N", "XA-XA" and "XC", where X is the band. For example, for CA_4A-4A, "N" would mean only DL CA, "4A-4A" would mean both DL and UL CA. | | | | | |
| Note 3: | The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-3. | | | | | |
| Note 4: | Reference to all item | s is 36.101, 5 | 5.6A a | and 36.331, 6.3.6. | | |

A.4.3.3.3 Inter-band CA Physical Layer Baseline Implementation Capabilities

Table A.4.3.3.3-1: Downlink Inter-band CA Bandwidth Class Combination capabilities (for one or more of the supported CA configurations in Table A.4.3.3.3-3)

| Item | Bandwidth Class Combination | Ref. | Mnemonic | Comments |
|------|-----------------------------|---------------|------------------|----------|
| 1 | DL Inter-band CA BW Class | 36.101, 5.6A | pc_DL_interBand_ | |
| | Combination A-A | 36.331, 6.3.6 | CaBwClassComb_ | |
| | | | AA | |

| ltem | Bandwidth Combination class | Ref. | Mnemonic | Comments |
|------|---------------------------------------|---------------|-------------------|----------|
| 1 | UL Inter-band CA BW Combination class | 36.101, 5.6A | pc_UL_interBand_ | |
| | A-A | 36.331, 6.3.6 | CaBwClassComb_ | |
| | | | AA | |
| 2 | UL (Pcell) supported in each band of | 36.101, 5.6A | pc_UL_SupportedIn | |
| | Inter-band CA combination under test | 36.331, 6.3.6 | AllBandsInCAComb | |

Table A.4.3.3.3-2: Uplink Inter-band CA Bandwidth Class Combination capabilities (for one or more of the supported CA configurations in Table A.4.3.3.3-3)

| E-UTRA CA | Release | g | Supported CA | Supported UL | Supported Bandwidth |
|------------------------|------------------|-----------|------------------------|----------------|---------------------|
| configuration / Item | | rte | Bandwidth Class(es) in | Bands (Note 5) | Combination Set(s) |
| (Note 1) | | odo | UL | | (Note 3) |
| | | Supported | (Note 2) | | |
| CA_1A-3A | Rel-12 | •, | | | |
| CA_1A-5A | Rel-10 | | | | |
| CA_1A-7A | Rel-12 | | | | |
| CA_1A-8A | Rel-12 | | | | |
| CA_1A-11A | Rel-12 | | | | |
| CA_1A-18A | Rel-11 | | | | |
| CA_1A-19A | Rel-11 | | | | |
| CA_1A-20A | Rel-12 | | | | |
| CA_1A-21A | Rel-11 | | | | |
| CA_1A-26A | Rel-12 | | | | |
| CA_1A-28A | Rel-12 Rel-12 | | | | |
| CA_1A-41A CA_1A-41C | Rel-12 Rel-12 | | | | |
| CA_1A-41C | Rel-12 | | | | |
| CA_1A-42C | Rel-12 | | | | |
| CA_2A-2A-5A | Rel-12 | | | | |
| CA_2A-2A-13A | Rel-12 | | | | |
| CA_2A-4A | Rel-12 | | | | |
| CA_2A-4A-4A | Rel-12 | | | | |
| CA_2A-5A | Rel-12 | | | | |
| CA_2A-12A | Rel-12 | | | | |
| CA_2A-12B | Rel-12 | | | | |
| CA_2A-13A | Rel-12 | | | | |
| CA_2A-17A | Rel-11 | | | | |
| CA_2A-29A | Rel-11 | | | | |
| CA_2C-29A | Rel-12 | | | | |
| CA_2A-30A | Rel-12 | | | | |
| CA_3A-5A | Rel-11 | | | | |
| CA_3A-7A | Rel-11 | | | | |
| CA_3A-7C CA_3C-7A | Rel-12 | | | | |
| CA_3C-7A CA_3A-8A | Rel-12 | | | | |
| CA_3A-19A | Rel-11 Rel-12 | | | | |
| CA_3A-20A | Rel-12 | | | | |
| CA_3A-26A | Rel-12 | | | | |
| CA_3A-27A | Rel-12 | | | | |
| CA_3A-28A | Rel-12 | | | | |
| CA_3A-42A | Rel-12 | | | | |
| | Rel-12 | | | | |
| CA_4A-5A | Rel-11 | | | | |
| CA_4A-4A-5A | Rel-12 | | | | |
| CA_4A-7A | Rel-11 | | | | |
| CA_4A-4A-7A | Rel-12 | | | | |
| CA_4A-12A | Rel-11 | | | | |
| CA_4A-4A-12A | Rel-12 | | | | |
| CA_4A-12B | Rel-12 | | | | |
| CA_4A-13A | Rel-11 | | | | |
| CA_4A-4A-13A | Rel-12 | | | | |
| CA_4A-17A | Rel-11 | | | | |
| CA_4A-27A CA_4A-29A | Rel-12 Rel-11 | | | | |
| CA_4A-29A CA_4A-30A | Rel-11 Rel-12 | | | | |
| CA_4A-30A CA_5A-7A | Rel-12 Rel-12 | | | | |
| CA_5A-12A | Rel-12 | | | | |
| CA_5A-13A | Rel-12 | | | | |
| CA_5A-17A | Rel-11 | | | | |
| CA_5A-25A | Rel-12 | l | | | |
| | | 1 | | | 1 |
| CA_5A-30A | Rel-12 | | | | |

Table A.4.3.3.3-3: Supported CA configurations for Inter-band CA

| CA_7A-1 | 2A | Rel-12 | | | | |
|---------|--|--------|--|--|----------------------------|--|
| CA_7A-2 | 0A | Rel-11 | | | | |
| CA_7A-2 | 8A | Rel-12 | | | | |
| CA_8A-1 | 1A | Rel-12 | | | | |
| CA_8A-2 | 0A | Rel-11 | | | | |
| CA_11A- | 18A | Rel-11 | | | | |
| CA_12A- | 25A | Rel-12 | | | | |
| CA_12A- | 30A | Rel-12 | | | | |
| CA_18A- | 28A | Rel-12 | | | | |
| CA_19A- | 21A | Rel-12 | | | | |
| CA_19A- | 42A | Rel-12 | | | | |
| CA_19A- | 42C | Rel-12 | | | | |
| CA_20A- | | Rel-12 | | | | |
| CA_23A- | 29A | Rel-12 | | | | |
| CA_26A- | 41A | Rel-12 | | | | |
| CA_26A- | 41C | Rel-12 | | | | |
| CA_29A- | 30A | Rel-12 | | | | |
| CA_39A- | 41A | Rel-12 | | | | |
| CA_39A- | 41C | Rel-12 | | | | |
| CA_41A- | | Rel-12 | | | | |
| Note 1: | Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-2, e.g. "CA_1A- 3A" indicates interband CA operation on E-UTRA band 1 with DL CA Bandwidth Class A and on E-UTRA band 3 with DL CA Bandwidth Class A. | | | | | |
| Note 2: | supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 36.101 [2] Table 5.6A.1-2. For this release of specification valid choices are "N", "XA-XA" and "XC", where X is the band. For example, for full UL CA support in CA_18A-28A, UE shall indicate 18A-28A. For no UL CA "N". | | | | | |
| Note 3: | 5.6A.1-2. | | | | as per TS 36.101 [2] Table | |
| Note 4: | Reference to all items is 36,101, 5,6A and 36,331, 6,3.6. | | | | | |

Note 4: Note 5:

Reference to all items is 36.101, 5.6A and 36.331, 6.3.6. List all the CA Combination bands where UL is supported.

| E-UTRA CA | Release | g | Supported CA | Supported UL | Supported Bandwidth | | | |
|----------------------------------|---|-----------|------------------------------|---------------------------|--------------------------------|--|--|--|
| configuration / Item (Note 1) | | Supported | Bandwidth Class(es) in UL | Bands (Note 5) | Combination Set(s) (Note 3) | | | |
| | | dn | (Note 2) | | | | | |
| CA_1A-3A-5A | Rel-12 | S | | | | | | |
| CA_1A-3A-5A CA_1A-3A-8A | Rel-12 Rel-12 | | | | | | | |
| CA_1A-3A-19A | Rel-12 | | | | | | | |
| CA_1A-3A-20A | Rel-12 | | | | | | | |
| CA_1A-3A-26A | Rel-12 | | | | | | | |
| CA_1A-5A-7A | Rel-12 | | | | | | | |
| CA_1A-7A-20A | Rel-12 | | | | | | | |
| CA_1A-18A-28A | Rel-12 | | | | | | | |
| CA_1A-19A-20A CA_1A-19A-21A | Rel-12 | | | | | | | |
| CA_1A-19A-21A CA_2A-4A-5A | Rel-12 | | | | | | | |
| CA_2A-4A-12A | Rel-12 | | | | | | | |
| CA_2A-4A-13A | Rel-12 | | | | | | | |
| CA 2A-4A-29A | Rel-12 | | | | | | | |
| CA 2A-5A-12A | Rel-12 | | | | | | | |
| CA 2A-5A-13A | Rel-12 | | | | | | | |
| CA_2A-5A-30A | _ | | | | | | | |
| CA 2A-12A-30A | Rel-12 | | | | | | | |
| CA 2A-29A-30A | Rel-12 | | | | | | | |
| CA 3A-7A-20A | Rel-12 | | | | | | | |
| CA_4A-5A-12A | Rel-12 | | | | | | | |
| CA_4A-5A-13A | Rel-12 | | | | | | | |
| CA_4A-5A-30A | Rel-12 | | | | | | | |
| CA 4A-7A-12A | Rel-12 | | | | | | | |
| CA_4A-12A-30A | Rel-12 | | | | | | | |
| CA_4A-29A-30A | Rel-12 | | | | | | | |
| CA_7A-8A-20A | Rel-12 | | | | | | | |
| | | nd co | ntiguous CA Bands is accor | ding to TS 36.101 [2] | Table 5.6A.1-2a. e.g. | | | |
| | | | operation on E-UTRA bands | | | | | |
| | | | Table A.4.6-2 can be suppor | | | | | |
| supplier shall | indicate all s | uppo | rted UL CA Bandwidth Clas | s(es), in uplink of the s | supported CA Band(s), as per | | | |
| TS 36.101 [2] | Table 5.6A. | I-2a. | The UE shall also indicate i | n which bands is UL s | upported. For this release of | | | |
| specification | alid choices | are ' | N", "XA-YA" etc, where X,Y | Z are the bands. For | example, for UL support in | | | |
| | | | A-3A-19A, UE shall indicate | | | | | |
| | ier shall indic | ate t | he supported Bandwidth Co | mbination Set(s) as pe | er TS 36.101 [2] Table | | | |
| 5.6A.1-2a. | | . | | | | | | |
| | Reference to all items is 36.101, 5.6A and 36.331, 6.3.6. | | | | | | | |
| Note 5: List all the CA | List all the CA Combination bands where UL is supported. | | | | | | | |

Table A.4.3.3.3-4: Supported CA configurations for Inter-band CA (three bands)

A.4.4 Additional information

| ltem | Additional information | Ref. | Release | Mnemonic | Comments |
|------|--|-------------------------|----------------|---|---|
| 1 | Support of USIM removal without power down | | Rel-8 | pc_USIM_Removal | |
| 2 | Support of Allowed CSG list | 36.331 Annex B.2 | Rel-8 | pc_Allowed_CSG_I ist | For Rel-8: CSG autonomous search is optional. For Rel-9 or later releases: CSG autonomous search is mandatory for UEs supporting CSG full functionality. |
| 3 | Support of Short Message Service (SMS) MT over SGs | 23.272, 8.2.4, 8.2.5 | Rel-8 | pc_SMS_SGs_MT | |
| 4 | Support of Short Message Service (SMS) MO over SGs | 23.272, 8.2.2, 8.2.3 | Rel-8 | pc_SMS_SGs_MO | |
| 5 | Support of ISR | 23.401, 4.3.5.6 | Rel-8 | pc_ISR | |
| 6 | Support of Mobility management based on Dual-Stack Mobile IPv6 | 24.303 | Rel-8 | pc_DSMIPv6 | |
| 7 | Support for being configured to discover the Home Agent address via DNS | 24.303 | Rel-8 | pc_HAAddress_via _DNS | |
| 8 | Support of inter-RAT PS handover to E-UTRA (FDD) from UTRA | 25.306, 4.7 | Rel-8 | pc_HO_from_UTR A_to_eFDD | |
| 9 | Support of EMM information message | 24.301, 5.4.5.3 | Rel-8 | pc_EMM_Informati on | |
| 10 | Support for being configured to discover the Home Agent address via DHCPv6 | 24.303 | Rel-8 | pc_HAAddress_via _DHCPv6 | |
| 11 | Void | | | | |
| 12 | Upon reception of "Full name for network" information the UE stores/updates the network full name | 24.301, 8.2.13 | Rel-8 | pc_FullNameNetwo rk | |
| 13 | Upon reception of "Short name for network" information the UE stores/updates the network short name | 24.301, 8.2.13 | Rel-8 | pc_ShortNameNet work | |
| 14 | Upon reception of "Local time zone" information the UE stores/updates the local time zone | 24.301, 8.2.13 | Rel-8 | pc_LocalTimeZone | |
| | Upon reception of "Universal time and local time zone" information the UE stores/updates the universal time and local time zone | 24.301, 8.2.13 | Rel-8 | pc_UniversalAndLo calTimeZone | |
| | Void | | Dol 0 | na SwitchOnOff | |
| | Support of switch on/off Support of ESM UE requested bearer resource allocation procedure | 24.301, 6.5.3 | Rel-8 Rel-8 | pc_SwitchOnOff pc_ESM_MO_Bear er_Allocation | |
| 19 | Support of ESM UE requested bearer resource modification procedure | 24.301, 6.5.4 | Rel-8 | pc_ESM_MO_Bear er_Modification | |
| 20 | Support of ETWS message | 23.401, 5.12.2 | Rel-8 | pc_ETWS_messag e | |
| 21 | Supports E-UTRAN Neighbour Cell measurements and MS autonomous cell reselection to E-UTRAN | 24.008, 10.5.5.12a | Rel-8 | pc_GERAN_2_E_U TRAN_meas | |
| | Support for being configured to request the IPv6 address of the Home Agent during Attach procedure | 24.303 | Rel-8 | pc_RequestIPv6HA Address_DuringAtt ach | |
| 23 | Support for being configured to request the IPv4 address of the Home Agent during Attach procedure | 24.303 | Rel-8 | pc_RequestIPv4HA Address_DuringAtt ach | |

| Item | Additional information | Ref. | Release | Mnemonic | Comments |
|------|---|--|----------|--|---|
| 24 | Void | | 11010400 | | |
| | Support of IMS | 24.229 | Rel-8 | pc_IMS | |
| 26 | Supports of disabling the EPS services | 24.301, 3.1, 5.5.2.1 | Rel-8 | pc_EPS_Services_ Disable | |
| 27 | Support of automatic re-activation of the EPS bearer(s) during Network Initiated Detach with detach type set to 're-attach required' | 24.301, 5.5.2.3.2 | Rel-8 | pc_Automatic_Re_ Attach | |
| 28 | Support of Compressed mode | 25.306 | Rel-8 | pc_UTRA_Compre ssedModeRequired | |
| 29 | Support of GERAN to E-UTRAN PS Handover | 24.008, 10.5.5.12a | Rel-8 | pc_GERAN_2_E_U TRAN_PSHO | |
| 30 | Support for multiple PDN connections | 23.401, 5.10 | Rel-8 | pc_Multiple_PDN | |
| 31 | Support of use of the UTRA system information provided by <i>RRCConnectionRelease</i> upon redirection | 36.306 | Rel-9 | pc_eRedirectionUT RA | |
| 32 | Support for SRVCC from E-UTRAN to GERAN/UTRAN | 24.301, 8.2.4 | Rel-8 | pc_SRVCC_GERA N_UTRAN | |
| 33 | Support for VoLTE in GSMA PRD IR.92: 'IMS Profile for Voice and SMS' | 24.173 24.229, 26.114, 5.2.1, GSMA PRD IR.92 | Rel-8 | pc_VoLTE | Multimedia telephony service participant initiating a speech session. UE supports sending DTMF events over RTP. |
| 34 | Support of detach for non-EPS services | 24.301, 5.5.2.1 | Rel-8 | pc_IMSI_Detach | |
| 35 | Support for establishing the emergency call using the CS domain in UTRA after ATTACH REJECT to emergency bearer service | 24.301, 5.5.1.2.5A | Rel-9 | pc_CS_Em_Call_in _UTRA | |
| 36 | Support for establishing the | 24.301, 5.5.1.2.5A | Rel-9 | pc_CS_Em_Call_in _GERAN | |
| 37 | Support for establishing the emergency call using the CS domain in 1xRTT after ATTACH REJECT to emergency bearer service | 24.301, 5.5.1.2.5A | Rel-9 | pc_CS_Em_Call_in _1xRTT | |
| | Support for EDTM | 44.060 8.9.1.2 | Rel-8 | pc_EDTM | |
| | Supports CCN towards E-UTRAN, E- UTRAN Neighbour Cell measurement reporting and Network controlled cell reselection to E- UTRAN | 10.5.5.12a | Rel-8 | pc_GERAN_2_E_U TRAN_measreporti ng_CCN | |
| 40 | Support for ROHC profile0x0001 | 36.306, 4.3.1.1 | Rel-8 | | 'IMS capable UEs supporting voice' shall set this PICS to true. |
| 41 | Support for ROHC profile0x0002 | 36.306, 4.3.1.1 | Rel-8 | pc_ROHC_profile0 x0002 | 'IMS capable UEs supporting voice' shall set this PICS to true. |
| 42 | Support for ROHC profile0x0003 | 36.306, 4.3.1.1 | Rel-8 | pc_ROHC_profile0 x0003 | |
| 43 | Support for ROHC profile0x0004 | 36.306, 4.3.1.1 | Rel-8 | pc_ROHC_profile0 x0004 | |
| 44 | Support for ROHC profile0x0006 | 36.306, 4.3.1.1 | Rel-8 | pc_ROHC_profile0 x0006 | |
| 45 | Support for ROHC profile0x0101 | 36.306, 4.3.1.1 | Rel-8 | pc_ROHC_profile0 x0101 | |
| 46 | Support for ROHC profile0x0102 | 36.306, 4.3.1.1 | Rel-8 | pc_ROHC_profile0 x0102 | |
| 47 | Support for ROHC profile0x0103 | 36.306, 4.3.1.1 | Rel-8 | pc_ROHC_profile0 x0103 | |
| 48 | Support for ROHC profile0x0104 | 36.306, 4.3.1.1 | Rel-8 | pc_ROHC_profile0 x0104 | |

| Item | Additional information | Ref. | Release | Mnemonic | Comments |
|----------|---|-----------------------|---------|--|---|
| 49 | Support of manual CSG selection | 36.331, Annex B2 | Rel-8 | election | For Rel-8: manual CSG selection is optional. For Rel-9 or later releases: manual CSG selection is mandatory for UEs supporting CSG full functionality. |
| 50 | Support of semi-persistence scheduling | 36.331, Annex B1 | Rel-8 | pc_semi_persiste nce_scheduling | For Rel-8: semi- persistence scheduling is mandatory if pc_FeatrGrp_3 is set to true. For Rel-9 or later releases: semi-persistence scheduling is mandatory if pc_FeatrGrp_29 is set to true. |
| 51 | Support of TTI bundling | 36.331, Annex B1 | Rel-8 | pc_TTI_bundling | For Rel-8: TTI bundling is mandatory if pc_FeatrGrp_3 is set to true. For Rel-9 or later releases TDD: TTI bundling is mandatory if pc_FeatrGrp_28 is set to true. For Rel-9 or later releases FDD: TTI bundling is mandatory. |
| 52 | Support for inter-RAT PS handover from E-UTRAN to GERAN. | 36.306, 4.3.7.11 | Rel-8 | pc_E_UTRAN_2_G ERAN_PSHO | |
| 53 | | 25.306, 4.7 | Rel-8 | pc_HO_from_UTR A_to_eTDD | |
| 54 | Support for UE requested modification of network allocated TFTs | 24.301, 6.5.4 | Rel-8 | pc_ESM_UE_Modif ication_NW_TFT | |
| 55 | Support of automatic re-activation of the EPS bearer(s) during Network Initiated Detach even though UE has initiated a detach procedure with detach type set to 'EPS detach' or 'combined EPS/IMSI detach' | 24.301, 5.5.2.2.4 | Rel-8 | pc_Re_Attach_Afte rDetachColl | |
| 56 | Support of Squal based cell reselection to UTRAN from E- UTRAN | 25.304, 5.2.6.1.4a | Rel-9 | pc_Squal_based_C ellReselection_to_ UTRAN_from_E_U TRAN | |
| 57 | Support of Squal based cell reselection to E-UTRAN from UTRAN | 36.304, 5.2.4.5 | Rel-9 | pc_Squal_based_C ellReselection_to_ E_UTRAN_from_U TRAN | |
| 58 | Support of CMAS message | 36.331, 5.2.1.5 | Rel-9 | pc_CMAS_messag e | |
| 59 | Void | | | | |
| 60 | Void Void | | | | |
| 61 62 | Support of logged measurements in RRC_IDLE | 36.306, 4.3.13.1 | Rel-10 | pc_loggedMeasure mentsIdle | |
| 63 | Support of standalone GNSS receiver to provide detailed location information in RRC measurement report and logged measurements in RRC_IDLE | 36.306, 4.3.13.2 | Rel-10 | pc_standaloneGNS S_Location | |
| 64 | Support of automatic re-activation of the EPS bearer(s) | 24.301 | Rel-8 | pc_Automatic_EPS _Re_Attach | |
| 65 | Support of UTRAN ANR | 25.306, 4.15 | Rel-10 | pc_UTRAN ANR | |

| ltem | Additional information | Ref. | Release | Mnemonic | Comments |
|------|---|---|---------|--|--|
| 66 | Void | | | | |
| 67 | Support of PWS upper layer | 23.041 clause 9.1.3.4.2 | Rel-9 | pc_PWS_UpperLay er | |
| 68 | Support of automatic PDN connectivity in EUTRAN (i.e. UE upper layer provides PDN connectivity parameters) | 24.301, 6.5.1.1 | Rel-8 | pc_Auto_PDN_Con nectivity | |
| 69 | Support user initiated PLMN reselection in automatic mode | 23.122 | Rel-8 | pc_UserInitiatedPL MN_Reselection | |
| 70 | Support of UL MIMO | 36.306, clause 4.3.4.6 | Rel-10 | pc_UL_MIMO | |
| 71 | Support of ESM Notification procedure | 24.301, 6.6.2 | Rel-9 | pc_ESM_Notificatio | |
| 72 | Support of sending concatenated multiple Short Message over SGs | 23.272, 8.2.3a | Rel-9 | pc_SMS_SGs_Mult i_MO | |
| 73 | Support TAU in connected mode | 23.221, 7.2a | Rel-8 | _in_IMS | Applicable when configured to pc_voice_PS_1_CS_2 |
| 74 | Support TAU in idle mode | 23.221, 7.2a | Rel-8 | pc_TAU_idle_in_IM S | and pc_attach |
| 75 | Support of Intra Frequency Proximity Indication | 36.306, clause 4.3.10. 1 | Rel-9 | pc_IntraFreq_Proxi mityIndication | |
| 76 | Support of Inter Frequency Proximity Indication | 36.306, clause 4.3.10. 2 | Rel-9 | pc_InterFreq_Proxi mityIndication | |
| 77 | Support of UTRAN Proximity Indication | 36.306, clause 4.3.10. 3 | Rel-9 | pc_UTRAN_Proxim ityIndication | |
| 78 | Support of Access Technology Indication in available PLMNs list | 23.122, clause 4.4.3.1. 2 | Rel-8 | pc_Available_PLM Ns_AcT_Ind | |
| 79 | Support of Squal based cell reselection between E-UTRAN and GERAN | 36.304, clause 5.2.4.5, 45.008, clause 6.6.6 | Rel-9 | pc_Squal_based_C ellReselection_bet ween_E_UTRAN_a nd_GERAN | |
| 80 | Support of AttachWithIMSI | 24.368, 5.4 | Rel-10 | pc_AttachWithIMSI | |
| 81 | Support of T3412 extended value IE | 24.301, 8.2.1.12, 8.2.26.15 | Rel-10 | pc_T3412Extended | |
| 82 | Void | | | | |
| 83 | Support of Low Access Priority indication | 24.008 1.8 | | pc_LAP | |
| 84 | Support of MinimumPeriodicSearchTimer | 23.122, 4.4.3.3 | Rel-10 | pc_MinimumPeriodi cSearchTimer | |
| 85 | Support of delivery of rachReport upon request from the network | 36.306, 4.3.12.1 | Rel-9 | pc_Rach_Report | |
| 86 | Support of Power Preference Indication | 36.306 4.3.15.3, 36.331, 5.6.10 | Rel-11 | pc_PPI_Support | |
| 87 | Support of ePDCCH | 36.306, 4.3.4.18 36.331, 6.3.6 | Rel-11 | pc_ePDCCH | |
| 88 | Void | | | | |
| 89 | Void | | | | |
| 90 | Support of Low Access Priority Override | 24.368, 5.9, 31.102, 4.2.94 | Rel-11 | pc_LAP_override | |
| 91 | Support of Extended Access Barring Override | 24.368, 5.10, 31.102, 4.2.94 | Rel-11 | pc_EAB_override | |
| 92 | Support of UE radio bearer test mode for CSG proximity testing | 36.509 5.3.2.3 | Rel-9 | pc_TestModeforCS Gproximity | |
| 93 | Upon reception of "Daylight saving time" information the UE stores/updates the daylight saving time | 24.301, 8.2.13 | Rel-8 | pc_DaylightSaving Time | |

| Item | Additional information | Ref. | Release | Mnemonic | Comments |
|------|--|---------------------|--------------|------------------------------|---|
| 94 | Support of Radio Link Failure Report | 36.306, clause | Rel-11 | pc_RLF_Report_for | Comments |
| 01 | for inter-RAT MRO | 6.10.1 | | _inter-RAT_MRO | |
| 95 | Support of IPv4 | 23.221, 5.1 | Rel-5 | pc_IPv4 | |
| 96 | Support of IPv6 | 23.221, 5.1 | Rel-5 | pc_IPv6 | |
| 97 | Support of Automatic Mode | 23.122, | Rel-8 | pc_PLMN_EF_LRP | |
| | EF_LRPLMSI PLMN Selection | 4.4.3.1 | | LMNSI_Automatic_ | |
| | exception | | | Mode_Exception | |
| 98 | Support of Manual Mode PLMN | 23.122, | Rel-8 | pc_PLMN_Manual_ | |
| | Selection exception | 4.4.3.1 | | Mode_Exception | |
| 99 | Support of ZUC algorithm | 33.401,5.1.3.2 | Rel-11 | pc_ZUC | |
| 100 | Supports, upon configuration of <i>si</i> - | 36.306, | Rel-9 | pc_SI_Neighbour_ | |
| | RequestForHO by the network, acquisition of relevant information | 4.3.11.3 | | UMTS_Autonomou s_Gaps | |
| | from a neighbouring UMTS cell by | | | s_Gaps | |
| | reading the SI of the neighbouring | | | | |
| | cell using autonomous gaps and | | | | |
| | reporting | | | | |
| 101 | Support of reception of | 36.306, | Rel-11 | pc_ reqFreqBands | |
| | requestedFrequencyBands | 4.3.5.6 | | | |
| 102 | Support of more than 128 CA Band | 36.331, | Rel-11 | pc_More_Than_12 | |
| 4.00 | Combinations | 5.6.3.3, 6.4 | P 1 - | 8_CAbandComb | |
| 103 | Supports, upon configuration of <i>si</i> - | 36.306, | Rel-9 | pc_SI_Neighbour_i | |
| | RequestForHO by the network, acquisition of relevant information | 4.3.11.1 | | ntraFreq_Autonom ous_Gaps | |
| | from a neighbouring intra-frequency | | | ous_Gaps | |
| | cell by reading the SI of the | | | | |
| | neighbouring cell using autonomous | | | | |
| | gaps and reporting | | | | |
| 104 | Supports, upon configuration of si- | 36.306, | Rel-9 | pc_SI_Neighbour_i | |
| | RequestForHO by the network, | 4.3.11.2 | | nterFreq_Autonom | |
| | acquisition of relevant information | | | ous_Gaps | |
| | from a neighbouring inter-frequency | | | | |
| | cell by reading the SI of the | | | | |
| | neighbouring cell using autonomous gaps and reporting | | | | |
| 105 | Support of Type B Half-duplex FDD | 36.211, 6.2.5 | Rel-12 | pc_FDD_TypeB_H | Only applicable for UE |
| 100 | operation | 36.306, 4.2.6 | 1.01.12 | alfDuplex | supporting Category 0. |
| | · · | , | | 1 | When set transmission |
| | | | | | scheduling is performed in |
| | | | | | accordance to Half-Duplex |
| | | | | | operation Type B else in |
| | | | | | accordance to Full-Duplex |
| 106 | Support of ProSe direct discovery | 24.334, 6.2.2 | Rel-12 | pc_ProSe_DD_Ann | operation. |
| 100 | announcing | 27.004, 0.2.2 | | ouncing | |
| 107 | Support of enhanced HARQ pattern | 36.306 | Rel-12 | pc_eHARQ_Patter | |
| | for TTI bundling operation for FDD | 4.3.4.27 | | n_for_TTI_bundling | |
| 108 | Support of tdd-FDD-CA- | 36.306, | Rel-12 | pc_tdd_FDD_CA_T | |
| | PCellDuplex-r12 with the first bit | 4.3.4.28 | | DD_PCell | |
| | setting to '1' | | | | |
| 109 | Support of tdd-FDD-CA- | 36.306, | Rel-12 | pc_tdd_FDD_CA_F | |
| | PCellDuplex-r12 with the second bit | 4.3.4.28 | | DD_PCell | |
| 110 | setting to '1' | 26 206 4 2 24 | Dol 40 | no Drobo Directo | |
| 110 | Support of ProSe direct | 36.306 4.3.21 | Rel-12 | pc_ProSe_DirectC | 36.306, 4.3.21.1: If a UE |
| | communication | | | ommunication | supports sidelink communication on at least |
| | | | | | one band, the UE shall |
| | | | | | support sidelink |
| | | | | | communication |
| | | | | | transmission based on UE |
| | | | | | autonomous resource |
| | | | | | selection and eNB |
| | | | | | scheduled resource |
| 444 | Quement of Dec Que direct 1 | 20.202 | D-L 40 | | allocation. |
| 111 | Support of ProSe direct discovery monitoring | 36.306, 4.3.21.3 | Rel-12 | pc_ProSe_DD_Mo nitoring | |
| | monitoring | ט.בו.ט | | Intoring | |

| ltem | Additional information | Ref. | Release | Mnemonic | Comments |
|------|------------------------------|----------------|---------|-----------------|------------------------------|
| 112 | Support of ProSe EPC level | 24.334, 7.2 | Rel-12 | pc_Prose_EPC_Di | |
| | discovery | | | scovery | |
| 113 | Support of SLSS transmission | 36.306, | Rel-12 | pc_SLSS_Transmi | |
| | | 4.3.21.6 | | ssion | |
| 114 | Support of uplink 64QAM | 36.306, | Rel-12 | pc_UL_64QAM | |
| | | 4.3.4.39 | | | |
| 115 | Support of Power Saving Mode | 24.301, 5.3.11 | Rel-12 | pc_PSM | |
| 116 | Support of downlink 256QAM | 36.306, 4.1, | Rel-12 | pc_DL_256QAM | Applicable for UEs of |
| | | 4.1A | | | category 11-12 and UEs of |
| | | | | | DL category 11 and |
| | | | | | onwards. It is mandatory for |
| | | | | | UEs of DL category 13-14. |

Table A.4.4-1A: Additional UE radio access capabilities (Mandatory for Rel-11 and onward)

| ltem | Additional capabilities | Ref. | Release | Status (Note 1) | Support Yes/No (Note 2) | Mnemonic | Comments | | |
|--------|---|---|---------------------|--------------------|-------------------------------|---|---|--|--|
| 1 | UL Coordinated Multi- Point operation | 36.306, 4.3.4.23 | Rel-11 | O.01 | | pc_UL_CoMP | This is a Rel-11 Mandatory feature | | |
| 2 | Support of TDD special subframe | 36.306, 4.3.4.21 36.331, 6.3.6 | Rel-11 | O.01 | | pc_TDD_Special Subframe | This is a Rel-11 Mandatory feature | | |
| | | | Rel-9, Rel-10 | 0 | | | The Capability can optionally be implemented in UEs of the indicated Releases | | |
| 3 | Support of multiple timing advances for each band combination supported by the UE | 36.306, 4.3.5.3 | Rel-11 | O.01 | | pc_multipleTiming Advance | This is a Rel-11 Mandatory feature (Note 3) | | |
| 4 | Support of Extended Access Barring | 36.306, 7.3.1 | Rel-11 | O.01 | | pc_EAB | This is a Rel-11 Mandatory feature (Note 4) | | |
| Note 2 | Note 1: From Rel-11 onwards 3GPP TSG RAN has discontinued the usage of FGI bits (see A.4.5). Instead it has introduced a different mechanism to accomplish the same purposes based on the following principles (TS 36.306 [1] 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 will be explicitly stated. Note 2: If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release. It is mandatory for UEs of this release of the specification to support this capability for band combinations having an UL on multiple FDD bands (see 36.306, 4.3.5.3). In the context of evaluating the status of the | | | | | | | | |
| Note 4 | one CA configuration this CA configuration | ns for Inter-b is Mandato | oand CA the ory. | UE indicat | es A-A ther | ded in Table A.4.3.3.3-3 i.e. in the Support of multiple tim Extended Access Barring (s | ing advances for | | |

Table A.4.4-1B: Additional UE radio access capabilities Conditions

0.01 IF The feature has been IOT-ed THEN Support shall be indicated ELSE Support shall not be indicated

Table A.4.4-2: Definition of UE implementation capabilities

| Item | Definition of UE implementation capabilities | Ref. | Release | Mnemonic | Comments |
|------|---|-------------------|---------|----------------------------------|---|
| 1 | Support EPS attach (with or without pre-configuration) | 24.301 (Note1) | Rel-8 | pc_attach | UE supports to be configured to initiate EPS attach or will always initiate EPS attach. (pc_PS_voice_centri c OR pc_PS_data_centric) shall set this PICS to true. |
| 2 | Support combined EPS/IMSI attach (with or without pre-configuration) | 24.301 | Rel-8 | pc_combined_attach | UE supports to be configured to initiate combined EPS/IMSI attach or will always initiate combined EPS/IMSI attach. Implication: ((pc_UTRA OR pc_GERAN) AND [8] pc_CS) OR pc_CS_fallback OR pc_CS_fallback OR pc_CS_fallback OR pc_CS_fallback OR pc_CS_fallback OR pc_CS_Em_Call_in _UTRA OR pc_CS_Em_Call_in _GERAN OR pc_CS_PS_voice_c entric OR pc_CS_PS_data_ce ntric shall set this PICS to true. |
| 3 | Void | | | | |
| 4 | Support of CS/PS mode 1 | 24.301 | Rel-8 | pc_CS_PS_voice_cen tric | UE supports to be configured to consistently behave as a CS/PS Voice centric UE |
| 5 | Support of CS/PS mode 2 | 24.301 | Rel-8 | pc_CS_PS_data_centr ic | UE supports to be configured to consistently behave as a CS/PS Data centric UE. |
| 6 | Requiring UMI proceeding to paging response | 23.272 | Rel-8 | pc_UMI_ProcNeeded_ DuringCSFB | UE requires UMI prior to paging response while CSFB to UTRA |
| 7 | Support of PS mode 1 | 24.301 | Rel-8 | pc_PS_voice_centric | UE supports to be configured to consistently behave as a PS Voice centric UE |
| 8 | Support of PS mode 2 | 24.301 | Rel-8 | pc_PS_data_centric | UE supports to be configured to consistently behave as a PS Data centric UE. |
| 9 | IMS PS voice preferred, CS Voice as secondary | 24.301 | Rel-8 | pc_voice_PS_1_CS_2 | Configured voice domain preference. |

| ltem | Definition of UE implementation capabilities | Ref. | Release | Mnemonic | Comments |
|---------|--|--|--|--|---|
| 10 | Keeps EPS Bearer Context parameters after completion of the normal DETACH procedure | 24.301 cl. 5.5.2.2.2 | Rel-8 | pc_KeepEpsBearerPa rametersAfterNormalD etach | If the UE supports this, then the next ATTACH after DETACH shall be done using AT command AT+CGATT=1. |
| | | | | | Otherwise it shall be done using AT+CGDCONT=1,"I P" followed by AT+CGACT=1 |
| 11 | IMS APN as default APN | 23.401 | Rel-8 | pc_IMS_APN_default | Configured with IMS APN as default APN. |
| 12 | XCAP only APN | 23.401 | Rel-8 | pc_XCAP_only_APN | Configured with an APN for XCAP only usage.(Note 2) |
| 13 | Provide IMS APN | 23.401 | Rel-8 | pc_Provide_IMS_APN | Configured to provide IMS APN during initial attach. |
| 14 | Provide IMS as second APN | 23.401 | Rel-8 | pc_Provide_IMS_as_s econd_APN | Configured to provide IMS APN as the second PDN connection. |
| 15 | Provide Internet as second APN | 23.401 | Rel-8 | pc_Provide_Internet_a s_second_APN | Configured to provide Internet as the second PDN connection. |
| 16 | User initiated PDN disconnect | 24.301 | Rel-8 | pc_UE_supports_user _initiated_PDN_discon nect | UE supports user initiated PDN disconnect. |
| 17 | XCAP over Internet PDN | 23.401 | Rel-8 | pc_XCAP_over_Intern et_APN | Configured to use internet PDN for XCAP signalling (Note 2) |
| 18 | Dynamically downgrades the GERAN release when the support of EPS is disabled | 24.301, 24.008 | Rel-8 | pc_Dynamic_GERAN_ Rel_downgrade | UE may support e.g. from all GERAN Rel-8 features only those related to the interworking with EPS. When EPS is disabled then the Device may comply with a lower than Rel-8 GERAN release requirements. |
| 19 | Provide ProSe APN | 24.334 | Rel-12 | pc_Provide_ProSe_A PN | Configured to provide ProSe APN and a PDN connection request. An UE supporting D2D ProSe shall set this PICS to true. |
| Note 1: | A UE supporting UTRAN and/or GE GERAN cell as candidates for cell s initiate EPS attach which has select PS and CS domains, or to the PS do | election and ce ed a UTRAN of omain only or to | Il reselectio GERAN ce the CS do | n according to TS 36.304 all may perform registration main only. | A UE configured to on procedures to the |
| Note 2: | pc_XCAP_only_APN and pc_XCAP the same time. | _over_Internet | _APN are m | nutual exclusive i.e. shall | not be set to true at |

A.4.5 Feature group indicators

For the purpose of conformance testing, the definition of each Feature Group Indicator (FGI) is duplicated from Rel-8 for each possible E-UTRA mode, i.e. FDD (Tables A.4.5-1a, A.4.5-1d and A.4.5-3a) and TDD (Tables A.4.5-1b, A.4.5-1e and A.4.5-3b). For each FGI (applicable to the Release supported by the UE):

- If the UE supports E-UTRA FDD and TDD: both FDD and TDD support statuses shall be declared separately (see Note 2).
- If the UE supports single E-UTRA xDD mode: only the xDD-specific support status needs to be declared.
- Note 1: From Rel-11 onwards 3GPP TSG RAN has discontinued the usage of FGI bits. Instead it has introduced a different mechanism to accomplish the same purposes based on the principles described in TS 36.306 [13] clause 4. These new principles where applicable should be catered for elsewhere in the present document e.g. in section A.4.4.
- Note 2: For Rel-8 UE, the separate declaration also applies to FGI 1-32.
- Note 3: 'VoLTE' in the tables A.4.5-1a and A.4.5-1b corresponds to a UE which is IMS voice capable.

Table A.4.5-1: Void

Table A.4.5-1a: Feature group indicators 1-32 for FDD

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | | Ref. | 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) - 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 | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_1_F | 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 | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_2_F | 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 | - can only be set to 1 if the UE has set bit number 7 to 1. | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_3_F | Corresponding to the Index of Indicator, the leftmost binary bit 3. Set to true if supporting all functionalities in the feature |
| | Support of - 5bit RLC UM SN - 7bit PDCP SN | - can only be set to 1 if the UE has set bit number 7 to 1. | Yes, if UE supports VoLTE | Rel-9, Rel-10 | | | group. If UE supports FDD and TDD this item shall be set to same value as for item 3 in Table A.4.5-1b for TDD. |
| | | | Yes, if UE supports VoLTE. Yes, if UE supports SRVCC to EUTRAN from GERAN. | Rel-11 | | | עעד וא עריי. |
| 4 | Support of - Short DRX cycle | - can only be set to 1 if the UE has set bit number 5 to 1. | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_4_F | Corresponding to the Index of Indicator, the leftmost binary bit 4. Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|---|--|---|----------------------------------|----------------------|-----------------|---|
| 5 | Support of - Long DRX cycle - DRX command MAC control element | | Yes | Rel-8 Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_5_F | Corresponding to the Index of Indicator, the leftmost binary bit 5. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 5 in Table A.4.5-1b for TDD. |
| 6 | Support of - Prioritized bit rate | | Yes | Rel-8 Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_6_F | Corresponding to the Index of Indicator, the leftmost binary bit 6. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 6 in Table A.4.5-1b for TDD. |
| 7 | Support of - RLC UM | - can only be set to 0 if the UE does not support voice | Yes, if UE supports VoLTE Yes, if UE supports VoLTE. Yes, if UE supports SRVCC to EUTRAN from GERAN. | Rel-8 Rel-9, Rel-10 Rel-11 | 36.331, Annex B.1 | pc_FeatrGrp_7_F | Corresponding to the Index of Indicator, the leftmost binary bit 7. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 7 in Table A.4.5-1b for TDD. |
| 8 | Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH PS handover Support of - EUTRA RRC_CONNECTED to UTRA FDD or UTRA TDD CELL_DCH PS handover, if the UE supports either only UTRAN FDD or only UTRAN TDD - EUTRA RRC_CONNECTED to UTRA FDD CELL_DCH PS handover, if the UE supports both UTRAN FDD and UTRAN TDD | - can only be set to 1 if the UE has set bit number 22 to 1 | | Rel-8 Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_8_F | Corresponding to the Index of Indicator, the leftmost binary bit 8. Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|---|---|---------------------------|----------------------|------------------|---|
| | | | | | 00.004.4 | 5 10 05 | |
| 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 | Yes, if UE supports SRVCC to | Rel-8 to Rel-10 Rel-11 | 36.331, Annex B.1 | pc_FeatrGrp_9_F | 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) | | EUTRAN from GERAN. | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_10_F | 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 | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_11_F | 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 | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_12_F | 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 (within FDD or TDD) | - can only be set to 1 if the UE has set bit number 25 to 1 | Yes, unless UE only supports band 13 | Rel-8 Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_13_F | Corresponding to the Index of Indicator, the leftmost binary bit 13. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 13 in Table A.4.5-1b for TDD. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|--|---|----------------|----------------------|------------------|---|
| 14 | Support of - Measurement reporting event: Event A4 – Neighbour > threshold - Measurement reporting event: Event A5 – Serving < threshold1 & Neighbour > threshold2 | | | Rel-8 Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_14_F | Corresponding to the Index of Indicator, the leftmost binary bit 14. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 14 in Table A.4.5-1b for TDD. |
| 15 | Support of - Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set bit number 22 to 1 - Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively - Measurement reporting event: Event B1 - Neighbour > threshold for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively | - can only be set to 1 if the UE has set at least one of the bit number 22, 23, 24, 26 or 39 to 1. - even if the UE sets bits 41, it shall still set bit 15 to 1 if measurement reporting event B1 is tested for all RATs supported by UE | | Rel-8 Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_15_F | 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 - Intra-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> ; - Inter-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> , if the UE has set bit number 25 to 1; and - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_16_F | Corresponding to the Index of Indicator, the leftmost binary bit 16.Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same |

| Item | | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|--|---|---------|----------------------|------------------|---|
| | <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively NOTE: Event triggered periodical reporting (i.e. with <i>triggerType</i> set to <i>event</i> and with <i>reportAmount</i> > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit. | | Yes | Rel-9 | | | value as for item 16 in Table A.4.5-1b for TDD. |
| | Support of - Intra-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> | | | | | | |
| | Inter-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells, if the UE has set bit number 25 to 1 | | | | | | |
| | - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set bit number 22 to 1 | | | | | | |
| | Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively | | | | | | |
| | - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively | | | | | | |
| | NOTE: Event triggered periodical reporting (i.e., with <i>triggerType</i> set to <i>event</i> and with <i>reportAmount</i> > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit. | | | | | | |
| | - Intra-frequency periodical measurement reporting where triggerType is set to | - can only be set to 1 if the UE has set bit number 5 to 1. | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_17_F | Corresponding to the Index of Indicator, the leftmost binary bit 17. Set to true if supporting all functionalities in the feature |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|---|--|---|---------|----------------------|------------------|---|
| | periodical and purpose is set to reportCGI | | Yes | Rel-9 | | | group. If UE supports FDD and TDD this item shall be set to same value as for item 17 in Table A.4.5-1b for TDD. |
| 18 | Support of Inter-frequency ANR features including: - Inter-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> - Inter-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> | - can only be set to 1 if the UE has set bit number 5 to 1. | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_18_F | Corresponding to the Index of Indicator, the leftmost binary bit 18. Set to true if supporting all functionalities in the feature group. |
| | | | Yes, unless UE only supports band 13 | Rel-9 | | | If UE supports FDD and TDD this item shall be set to same value as for item 18 in Table A.4.5-1b for TDD. |
| 19 | Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> for UTRAN, 1xRTT or HRPD, if the UE has set bit number 22, 24 or 26 to 1, respectively - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively | - can only be set to 1 if the UE has set bit number 5 to 1 and the UE has set at least one of the bit number 22, 23, 24 or 26 to 1. - even if the UE sets bits 33 to 36, it shall still | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_19_F | Corresponding to the Index of Indicator, the leftmost binary bit 19. Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|---|---|---------|----------------------|----------|---|
| | <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> for GERAN, if the UE has set bit number 23 to 1 Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set bit number 22 to 1 Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> for 1xRTT or HRPD, if the UE has set bit number 24 or 26 to 1, respectively Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> for UTRAN FDD or UTRAN TDD, if the UE supports eis set to <i>reportCGI</i> for UTRAN FDD or UTRAN TDD, if the UE supports eis set to <i>reportCGI</i> for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 to 1 Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively | indicated as tested | | Rel-9 | | | |
| | - 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 | | Rel-8 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 20. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 20 in Table A.4.5-1b for TDD. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|--|---|----------------|----------------------|------------------|---|
| | | number 7 is set to "1", UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB + 1x UM DRB | Yes | Rel-9 | | | |
| 21 | Support of - Predefined intra- and inter-subframe frequency hopping for PUSCH with N_sb > 1 - Predefined inter-subframe frequency hopping for PUSCH with N_sb > 1 | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_21_F | Corresponding to the Index of Indicator, the leftmost binary bit 21. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 21 in Table A.4.5-1b for TDD. |
| 22 | Support of - UTRAN measurements, reporting and measurement reporting event B2 in E- UTRA connected mode Support of - UTRAN FDD or UTRAN TDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports either only UTRAN FDD or only UTRAN TDD - UTRAN FDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports both UTRAN FDD and UTRAN TDD | | Yes, if UE supports UTRA | Rel-8 Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_22_F | 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 | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_23_F | 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- | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_24_F | Corresponding to the Index of Indicator, the leftmost binary bit |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and | Release | Ref. | Mnemonic | Comments |
|------|---|--|---|----------------|----------------------|------------------|---|
| | | | successfully tested for the corresponding release | | | | |
| | UTRA connected mode | | Yes, if UE supports enhanced 1xRTT CSFB | Rel-9 | | | 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 NOTE: The UE setting this bit to 1 and indicating support for FDD and TDD frequency bands in the UE capability signalling implements and is tested for FDD measurements while the UE is in TDD, and for TDD measurements while the UE is | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_25_F | Corresponding to the Index of Indicator, the leftmost binary bit 25. Set to true if supporting all functionalities in the feature group. |
| | in FDD. | | Yes, unless UE only supports band 13 | Rel-9 | | | If UE supports FDD and TDD this item shall be set to same value as for item 25 in Table A.4.5-1b for TDD. |
| 26 | Support of - HRPD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode | | Yes, if UE | Rel-8 Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_26_F | Corresponding to the Index of Indicator, the leftmost binary bit 26. Set to true if supporting all functionalities in the feature |
| | | | supports HRPD | | | | group. |
| 27 | Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH CS handover | - related to SR- VCC - can only be set to 1 if the UE has set bit number 8 to 1 | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_27_F | Corresponding to the Index of Indicator, the leftmost binary bit 27. Set to true if supporting all functionalities in the feature group. |
| | Support of - EUTRA RRC_CONNECTED to UTRA FDD or UTRA TDD CELL_DCH CS handover, if the UE supports either only UTRAN FDD or only UTRAN TDD - EUTRA RRC_CONNECTED to UTRA FDD CELL_DCH CS handover, if the UE supports both UTRAN FDD and UTRAN TDD | and supports | Yes, if UE supports VoLTE and UTRA FDD | Rel-9 | | | 9.04F. |
| 28 | Support of - TTI bundling | | Yes | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_28_F | Corresponding to the Index of Indicator, the leftmost binary bit 28.Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|--|---|---------|----------------------|------------------|---|
| 29 | Support of - Semi-Persistent Scheduling | | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_29_F | Corresponding to the Index of Indicator, the leftmost binary bit 29.Set to true if supporting all functionalities in the feature group. |
| 30 | Support of - Handover between FDD and TDD | - can only be set to 1 if the UE has set bit number 13 to 1 | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_30_F | Corresponding to the Index of Indicator, the leftmost binary bit 30. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 30 in Table A.4.5-1b for TDD. |
| 31 | Support of - Indicates whether the UE supports the mechanisms defined for cells broadcasting multi band information i.e. comprehending multiBandInfoList, disregarding in RRC_CONNECTED the related system information fields and understanding the EARFCN signalling for all bands, that overlap with the bands supported by the UE, and that are defined in the earliest version of TS 36.101 [42] that includes all UE supported bands. | - This FGI bit is concerns an optional release independent feature (as it was difficult to introduce this from REL-8 when using regular UE capability signalling) | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_31_F | Corresponding to the Index of Indicator, the leftmost binary bit 31. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 31 in Table A.4.5-1b for TDD. |
| | | | | Rel-10 | | | |
| 32 | Undefined | | | Rel-8 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 32. |

Table A.4.5-1b: Feature group indicators 1-32 for TDD

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | 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) - 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 | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_1_T | 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 | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_2_T | 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 Support of - 5bit RLC UM SN - 7bit PDCP SN | - can only be set to 1 if the UE has set bit number 7 to 1. | Yes, if UE supports VoLTE Yes, if UE supports VoLTE. Yes, if UE supports SRVCC to EUTRAN from GERAN. | Rel-8 Rel-9, Rel-10 Rel-11 | 36.331, Annex B.1 | pc_FeatrGrp_3_T | Corresponding to the Index of Indicator, the leftmost binary bit 3. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 3 in Table A.4.5-1a for FDD. |
| 4 | Support of - Short DRX cycle | - can only be set to 1 if the UE has set bit number 5 to 1. | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_4_T | 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 | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_5_T | Corresponding to the Index of Indicator, the leftmost binary bit 5. Set to true if supporting all functionalities in the feature |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|--|---|------------------------|----------------------|------------------|---|
| | | | Yes | Rel-9 | | | group. If UE supports FDD and TDD this item shall be set to same value as for item 5 in Table A.4.5-1a for FDD. |
| 6 | Support of - Prioritized bit rate | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_6_T | Corresponding to the Index of Indicator, the leftmost binary bit 6. Set to true if supporting all functionalities in the feature group. |
| | | | Yes | Rel-9 | | | If UE supports FDD and TDD this item shall be set to same value as for item 6 in Table A.4.5-1a for FDD. |
| 7 | Support of - RLC UM | - can only be set to 0 if the UE does not support voice | Yes, if UE supports VoLTE | Rel-8 Rel-9, Rel-10 | 36.331, Annex B.1 | pc_FeatrGrp_7_T | Corresponding to the Index of Indicator, the leftmost binary bit 7. Set to true if supporting all |
| | | | Yes, if UE supports VoLTE. Yes, if UE supports SRVCC to EUTRAN from GERAN. | Rel-11 | | | functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 7 in Table A.4.5-1a for FDD. |
| 8 | Support of - EUTRA RRC_CONNECTED to UTRA FDD or UTRA TDD CELL_DCH PS handover, if the UE supports either only UTRAN FDD or only UTRAN TDD - EUTRA RRC_CONNECTED to UTRA FDD CELL_DCH PS handover, if the UE supports both UTRAN FDD and UTRAN TDD | - can only be set to 1 if the UE has set bit number 22 to 1 | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_8_T | 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 | | Rel-8 to Rel-10 | 36.331, Annex B.1 | pc_FeatrGrp_9_T | Corresponding to the Index of Indicator, the leftmost binary bit 9. |
| | | bit number 23 to 1 | Yes, if UE supports SRVCC to EUTRAN from GERAN. | Rel-11 | | | 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) | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_10_T | Corresponding to the Index of Indicator, the leftmost binary bit 10. Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|---|--|---|---------|----------------------|------------------|---|
| 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 | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_11_T | 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 | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_12_T | 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 (within FDD or TDD) | - can only be set to 1 if the UE has set bit number 25 to 1 | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_13_T | Corresponding to the Index of Indicator, the leftmost binary bit 13. Set to true if supporting all functionalities in the feature group. |
| | | | Yes, unless UE only supports band 13 | Rel-9 | | | If UE supports FDD and TDD this item shall be set to same value as for item 13 in Table A.4.5-1a for FDD. |
| 14 | Support of - Measurement reporting event: Event A4 – Neighbour > threshold - Measurement reporting event: Event A5 – Serving < threshold1 & Neighbour > threshold2 | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_14_T | Corresponding to the Index of Indicator, the leftmost binary bit 14. Set to true if supporting all functionalities in the feature group. |
| | | | Yes | Rel-9 | | | If UE supports FDD and TDD this item shall be set to same value as for item 14 in Table A.4.5-1a for FDD. |

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| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|--|---|---------|----------------------|----------|---|
| 15 | FDD or only UTRAN TDD and has set bit number 22 to 1 Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively Measurement reporting event: Event B1 - Neighbour > threshold for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, | can only be set to 1 if the UE has set at least one of the bit number 22, 23, 24, 26 or 39 to 1. even if the UE sets bits 41, it shall still set bit 15 to 1 if measurement reporting event B1 is tested for all RATs supported by UE | | Rel-8 | 36.331, Annex B.1 | | 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 - Intra-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> ; - Inter-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> , if the UE has set bit number 25 to 1; and - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively NOTE: Event triggered periodical reporting (i.e. with <i>triggerType</i> set to <i>event</i> and with <i>reportAmount</i> > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit. | | | | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 16. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 16 in Table A.4.5-1a for FDD. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|---|---|----------------|----------------------|------------------|--|
| 17 | Support of Intra-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i>; Inter-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i>, if the UE has set bit number 25 to 1 Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set bit number 22 to 1 Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively NOTE: Event triggered periodical reporting (i.e. with <i>triggerType</i> set to <i>event</i> and with <i>reportAmount</i> > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit. Support of Intra-frequency ANR features including: Intra-frequency periodical measurement reporting where <i>triggerType</i> is | | Yes | Rel-9 Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_17_T | Corresponding to the Index of Indicator, the leftmost binary bit 17. |
| | set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> - Intra-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> | | Yes | Rel-9 | - | | Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 17 in Table A.4.5-1a for FDD. |
| 18 | Support of Inter-frequency ANR features including: - Inter-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> - Inter-frequency periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> | - can only be set to 1 if the UE has set bit number 5 to 1. | Yes, unless UE only supports band 13 | Rel-8 Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_18_T | Corresponding to the Index of Indicator, the leftmost binary bit 18. Set to true if supporting all functionalities in the feature groupIf UE supports FDD and TDD this item shall be set to same value as for item 18 in Table A.4.5-1a for FDD. |

| Item | Additional information | | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|--|---|----------------|----------------------|------------------|--|
| 19 | UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> for UTRAN, 1xRTT or HRPD, if the UE has set bit number 22, 24 or 26 to 1, respectively - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively Support of Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set bit number 22 to 1 - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN FDD and has set bit number 22 or 39 to 1, respectively - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> for UTRAN FDD and has set bit number 22 or 39 to 1, respectively - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> for 1xRTT or HRPD, if the UE has set bit number 24 or 26 to 1, respectively. | and the UE has set at least one of the bit number 22, 23, 24 or 26 to 1. - even if the UE sets bits 33 to 36, it shall still set bit 19 to 1 if inter-RAT ANR features are tested for all RATs for which inter-RAT measurement reporting is indicated as tested | | Rel-8 Rel-9 | B.1 | pc_FeatrGrp_19_T | Corresponding to the Index of Indicator, the leftmost binary bit 19.Set to true if supporting all functionalities in the feature group. |
| 20 | NOTE: UE which indicate support for a DRB combination also support all | 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 | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_20_T | Corresponding to the Index of Indicator, the leftmost binary bit 20. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 20 in Table |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|---|--|---|----------------|----------------------|------------------|---|
| | | 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 | Yes | Rel-9 | | | A.4.5-1a for FDD. |
| 21 | Support of - Predefined intra- and inter-subframe frequency hopping for PUSCH with N_sb > 1 - Predefined inter-subframe frequency hopping for PUSCH with N_sb > 1 | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_21_T | Corresponding to the Index of Indicator, the leftmost binary bit 21. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 21 in Table A.4.5-1a for FDD. |
| 22 | Support of - UTRAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode Support of | | | Rel-8 Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_22_T | Corresponding to the Index of Indicator, the leftmost binary bit 22. Set to true if supporting all functionalities in the feature |
| | UTRAN FDD or UTRAN TDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports either only UTRAN FDD or only UTRAN TDD UTRAN FDD measurements, reporting and measurement reporting | | | | | | group. |
| | event B2 in E-UTRA connected mode, if the UE supports both UTRÅN FDD and UTRAN TDD | | | | | | |
| 23 | Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_23_T | Corresponding to the Index of Indicator, the leftmost binary bit 23. Set to true if supporting all functionalities in the feature |
| 24 | Support of - 1xRTT measurements, reporting and measurement reporting event B2 in E-UTRA connected mode | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_24_T | group. Corresponding to the Index of Indicator, the leftmost binary bit 24. |
| | | | Yes, if UE supports enhanced 1xRTT CSFB | Rel-9 | | | Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|---|---|---------|----------------------|------------------|---|
| 25 | Support of Inter-frequency measurements and reporting in E-UTRA connected node IOTE: The UE setting this bit to 1 and indicating support for FDD and | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_25_T | Corresponding to the Index of Indicator, the leftmost binary bit 25. Set to true if supporting all functionalities in the feature |
| | TDD frequency bands in the UE capability signalling implements and is tested for FDD measurements while the UE is in TDD, and for TDD measurements while the UE is in FDD. | | Yes, unless UE only supports band 13 | Rel-9 | _ | | If UE supports FDD and TDD this item shall be set to same value as for item 25 in Table A.4.5-1a for FDD. |
| 26 | Support of - HRPD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode | | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_26_T | Corresponding to the Index of Indicator, the leftmost binary bit 26. |
| | | | Yes, if UE supports HRPD | Rel-9 | | | Set to true if supporting all functionalities in the feature group. |
| 27 | Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH CS handover | related to SR-VCC can only be set to 1 if the UE has set bit number 8 to 1 and supports SR- | | Rel-8 | 36.331, Annex B.1 | pc_FeatrGrp_27_T | Corresponding to the Index of Indicator, the leftmost binary bit 27. Set to true if supporting all functionalities in the feature |
| | Support of - EUTRA RRC_CONNECTED to UTRA FDD or UTRA TDD CELL_DCH CS handover, if the UE supports either only UTRAN FDD or only UTRAN TDD | VCC from EUTRA defined in TS 24.008 | | Rel-9 | | | group. |
| | - EUTRA RRC_CONNECTED to UTRA FDD CELL_DCH CS handover, if the UE supports both UTRAN FDD and UTRAN TDD | | | | | | |
| 28 | Support of - TTI bundling | | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_28_T | Corresponding to the Index of Indicator, the leftmost binary bit 28. Set to true if supporting all functionalities in the feature group. |
| 29 | Support of - Semi-Persistent Scheduling | | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_29_T | Corresponding to the Index of Indicator, the leftmost binary bit 29. Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|---|---|---|-----------------|----------------------|----------|---|
| 30 | Support of - Handover between FDD and TDD | - can only be set to 1 if the UE has set bit number 13 to 1 | | Rel-8 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 30. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 30 in Table A.4.5-1a for FDD. |
| 31 | Support of - Indicates whether the UE supports the mechanisms defined for cells broadcasting multi band information i.e. comprehending multiBandInfoList, disregarding in RRC_CONNECTED the related system information fields and understanding the EARFCN signalling for all bands, that overlap with the bands supported by the UE, and that are defined in the earliest version of TS 36.101 [42] that includes all UE supported bands. | - This FGI bit is concerns an optional release independent feature (as it was difficult to introduce this from REL-8 when using regular UE capability signalling) | Yes | Rel-8 Rel-10 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 31. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 31 in Table A.4.5-1a for FDD. |
| 32 | Undefined | | | Rel-8 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit |

Table A.4.5-1c: Void

Table A.4.5-1d: Feature group indicators 33-64 for FDD

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|---|--|--|---------|-------------------|------------------|---|
| 1 | - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> | bit number 5 and bit number 22 to 1. | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_33_F | Corresponding to the Index of Indicator, the leftmost binary bit 33. Set to true if supporting all functionalities in the feature group. |
| 2 | - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> | bit number 5 and bit | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_34_F | Corresponding to the Index of Indicator, the leftmost binary bit 34. Set to true if supporting all functionalities in the feature group. |
| 3 | - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> | bit number 5 and bit | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_35_F | Corresponding to the Index of Indicator, the leftmost binary bit 35. Set to true if supporting all functionalities in the feature group. |
| 4 | Inter-RAT ANR features for HRPD including: - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> | bit number 5 and bit | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_36_F | Corresponding to the Index of Indicator, the leftmost binary bit 36. Set to true if supporting all functionalities in the feature group. |
| 5 | Inter-RAT ANR features for UTRAN TDD including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI | bit number 5 and at | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_37_F | Corresponding to the Index of Indicator, the leftmost binary bit 37. Set to true if supporting all functionalities in the feature group. |
| 6 | - EUTRA RRC_CONNECTED to UTRA TDD CELL_DCH PS handover, if the UE supports both UTRAN FDD and UTRAN TDD | - can only be set to 1 if the UE has set bit number 39 to 1. | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_38_F | Corresponding to the Index of Indicator, the leftmost binary bit 38. Set to true if supporting all functionalities in the feature group. |

| ltem | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | | Ref. | Mnemonic | Comments |
|------|--|---|--|-------|-------------------|------------------|---|
| 7 | - UTRAN TDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports both UTRAN FDD and UTRAN TDD | | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_39_F | Corresponding to the Index of Indicator, the leftmost binary bit 39. Set to true if supporting all functionalities in the feature group. |
| 8 | - EUTRA RRC_CONNECTED to UTRA TDD CELL_DCH CS handover, if the UE supports both UTRAN FDD and UTRAN TDD | related to SR-VCC can only be set to 1 if the UE has set bit number 38 to 1. | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_40_F | Corresponding to the Index of Indicator, the leftmost binary bit 40. Set to true if supporting all functionalities in the feature group. |
| 9 | Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD, if the UE supports UTRAN FDD and has set bit number 22 to 1 | | Yes for FDD, unless UE has set bit number 15 to 1 | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_41_F | Corresponding to the Index of Indicator, the leftmost binary bit 41. Set to true if supporting all functionalities in the feature group. |
| 10 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 42. |
| 11 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 43. |
| 12 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 44. |
| 13 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 45. |
| 14 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 46. |
| 15 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 47. |
| 16 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 48. |
| 17 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 49. |
| 18 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 50. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|------------------------|-------|--|---------|-------------------|----------|--|
| 19 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 51. |
| 20 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 52. |
| 21 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 53. |
| 22 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 54. |
| 23 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 55. |
| 24 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 56. |
| 25 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 57. |
| 26 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 58. |
| 27 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 59. |
| 28 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 60. |
| 29 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 61. |
| 30 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 62. |
| 31 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 63. |
| 32 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 64. |

Table A.4.5-1e: Feature group indicators 33-64 for TDD

| ltem | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|--|--|---------|-------------------|------------------|---|
| 1 | Inter-RAT ANR features for UTRAN including: - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> | bit number 5 and bit | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_33_T | Corresponding to the Index of Indicator, the leftmost binary bit 33. Set to true if supporting all functionalities in the feature group. |
| | Inter-RAT ANR features for GERAN including: - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCells</i> - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> | bit number 5 and bit number 23 to 1. | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_34_T | Corresponding to the Index of Indicator, the leftmost binary bit 34. Set to true if supporting all functionalities in the feature group. |
| 3 | Inter-RAT ANR features for 1xRTT including: - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> | bit number 5 and bit | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_35_T | Corresponding to the Index of Indicator, the leftmost binary bit 35. Set to true if supporting all functionalities in the feature group. |
| 4 | Inter-RAT ANR features for HRPD including: - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportStrongestCellsForSON</i> - Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to <i>periodical</i> and <i>purpose</i> is set to <i>reportCGI</i> | bit number 5 and bit | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_36_T | Corresponding to the Index of Indicator, the leftmost binary bit 36. Set to true if supporting all functionalities in the feature group. |
| 5 | Inter-RAT ANR features for UTRAN TDD including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI | bit number 5 and at | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_37_T | Corresponding to the Index of Indicator, the leftmost binary bit 37. Set to true if supporting all functionalities in the feature group. |
| 6 | - EUTRA RRC_CONNECTED to UTRA TDD CELL_DCH PS handover, if the UE supports both UTRAN FDD and UTRAN TDD | - can only be set to 1 if the UE has set bit number 39 to 1. | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_38_T | Corresponding to the Index of Indicator, the leftmost binary bit 38. Set to true if supporting all functionalities in the feature group. |
| 7 | UTRAN TDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports both UTRAN FDD and UTRAN TDD | | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_39_T | Corresponding to the Index of Indicator, the leftmost binary bit 39. Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | | Ref. | Mnemonic | Comments |
|------|--|--|--|-------|-------------------|------------------|---|
| 8 | - EUTRA RRC_CONNECTED to UTRA TDD CELL_DCH CS handover, if the UE supports both UTRAN FDD and UTRAN TDD | related to SR-VCC can only be set to 1 if the UE has set bit number 38 to 1. | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_40_T | Corresponding to the Index of Indicator, the leftmost binary bit 40. Set to true if supporting all functionalities in the feature group. |
| 9 | Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD, if the UE supports UTRAN FDD and has set bit number 22 to 1 | | | Rel-9 | 36.331, Annex B.1 | pc_FeatrGrp_41_T | Corresponding to the Index of Indicator, the leftmost binary bit 41. Set to true if supporting all functionalities in the feature group. |
| 10 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 42. |
| 11 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 43. |
| 12 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 44. |
| 13 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 45. |
| 14 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 46. |
| 15 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 47. |
| 16 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 48. |
| 17 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 49. |
| 18 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 50. |
| 19 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 51. |
| 20 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 52. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | | Ref. | Mnemonic | Comments |
|------|------------------------|-------|--|-------|-------------------|----------|--|
| 21 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 53. |
| 22 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 54. |
| 23 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 55. |
| 24 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 56. |
| 25 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 57. |
| 26 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 58. |
| 27 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 59. |
| 28 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 60. |
| 29 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 61. |
| 30 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 62. |
| 31 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 63. |
| 32 | Undefined | | | Rel-9 | 36.331, Annex B.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 64. |

Table A.4.5-2: EUTRA Feature group indicators

| Item | Additional information | Notes | Ref. | Release | Mnemonic | Comments |
|------|---|--|--------------------|------------------------------|------------------------|---|
| 1 | Support of - UTRA CELL_PCH to EUTRA RRC_IDLE cell reselection - UTRA URA_PCH to EUTRA RRC_IDLE cell reselection | | E | Rel-8 | pc_UTRA_FeatrGr p_1 | Corresponding to the Index of Indicator, the leftmost binary bit 1 For Rel-8: Set to true if supporting all functionalities in the feature group For Rel-9 or later releases: this FGI bit is set to TRUE s |
| 2 | Support of - EUTRAN measurements and reporting in connected mode | | 25.331, Annex E | Rel-8 | pc_UTRA_FeatrGr p_2 | 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 - UTRA CELL_FACH absolute priority cell reselection for high priority layers | UE supporting E-UTRAN shall set this bit to "TRUE" in this version of specification. | E | Rel-8 to Rel-10 Rel-11 | pc_UTRA_FeatrGr p_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 - UTRA CELL_FACH absolute priority cell reselection for all layers | UE supporting E-UTRAN shall set this bit to "TRUE" in this version of specification. | | Rel-8 to Rel-10 Rel-11 | pc_UTRA_FeatrGr p_4 | Corresponding to the Index of Indicator, the leftmost binary bit 4 Set to true if supporting all functionalities in the feature group |

Table A.4.5-3: Void

Table A.4.5-3a: Release 10 AS feature group indicators 101-132 for FDD

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|---|--|---|---------|-------------------|-------------------|---|
| 1 | - DMRS with OCC (orthogonal cover code) and SGH (sequence group hopping) disabling | - if the UE supports two or more layers for spatial multiplexing in UL, this bit shall be set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_101_F | Corresponding to the Index of Indicator, the leftmost binary bit 101. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 1 in Table A.4.5-3b for TDD. |
| | | - If a category 0 UE does not support this feature, this bit shall be set to 0. | | Rel-12 | _ | | |
| 2 | Trigger type 1 SRS (aperiodic SRS) transmission (Up to X ports) NOTE: X = number of supported layers on given band | | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_102_F | Corresponding to the Index of Indicator, the leftmost binary bit 102. Set to true if supporting all functionalities in the feature group. |
| 3 | - PDSCH transmission mode 9 when up to 4 CSI reference signal ports are configured | - for Category 8 UEs, this bit shall be set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_103_F | Corresponding to the Index of Indicator, the leftmost binary bit 103. Set to true if supporting all functionalities in the feature group. |
| 4 | - PDSCH transmission mode 9 for TDD when 8 CSI reference signal ports are configured | if the UE does not support TDD, this bit is irrelevant (capability signalling exists for FDD for this feature), and this bit shall be set to 0. for Category 8 UEs, this bit shall be set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_104_F | Corresponding to the Index of Indicator, the leftmost binary bit 104. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 4 in Table A.4.5-3b for TDD. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be | Release | Ref. | Mnemonic | Comments |
|------|--|--|---|---------|-------------------|-------------------|--|
| | | | implemented and successfully tested for the | | | | |
| | | | corresponding release | | | | |
| 5 | Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 – UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 – UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured | - this bit can be set to 1 only if indices 2 (Table B.1-1) and 103 are set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_105_F | Corresponding to the Index of Indicator, the leftmost binary bit 105. Set to true if supporting all functionalities in the feature group. |
| | | - For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if index 2 is set to 1 for both FDD and TDD, and index 103 is set to 1 either for FDD and TDD. | * | Rel-12 | | | |
| 6 | Periodic CQI/PMI/RI/PTI reporting on PUCCH: Mode 2-1 UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured | - this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if <i>tm9</i> - <i>With-8Tx-FDD-r10</i> is set to "supported") and if index 2 (Table B.1-1) is set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_106_F | Corresponding to the Index of Indicator, the leftmost binary bit 106. Set to true if supporting all functionalities in the feature group. |
| | | - For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to "supported", and if index 2 is set to 1 for both FDD and TDD. | | Rel-12 | | | |
| 7 | Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured | - this bit can be set to 1 only if indices 1 (Table B.1-1) and 103 are set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_107_F | Corresponding to the Index of Indicator, the leftmost binary bit 107. Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|--|---|------------------|-------------------|-------------------|--|
| | - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured | - this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if <i>tm9- With-8Tx-FDD-r10</i> is set to "supported") and if index 1 (Table B.1-1) is set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_108_F | Corresponding to the Index of Indicator, the leftmost binary bit 108. Set to true if supporting all functionalities in the feature group. |
| 9 | - Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 1 | this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if <i>tm9-With-8Tx-FDD-r10</i> is set to "supported"). For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to "supported". | | Rel-10 Rel-12 | 36.331, Annex C.1 | pc_FeatrGrp_109_F | Corresponding to the Index of Indicator, the leftmost binary bit 109. Set to true if supporting all functionalities in the feature group. |
| 10 | - Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 2 | this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if <i>tm9-With-8Tx-FDD-r10</i> is set to "supported"). For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to "supported". | | Rel-10 Rel-12 | 36.331, Annex C.1 | pc_FeatrGrp_110_F | Corresponding to the Index of Indicator, the leftmost binary bit 110. Set to true if supporting all functionalities in the feature group. |
| 11 | - Measurement reporting trigger Event A6 | - this bit can be set to 1 only if the UE supports carrier aggregation. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_111_F | Corresponding to the Index of Indicator, the leftmost binary bit 111. Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|--|---|---------|-------------------|-------------------|--|
| 12 | - SCell addition within the Handover to EUTRA procedure | - this bit can be set to 1 only if the UE supports carrier aggregation and the Handover to EUTRA procedure. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_112_F | Corresponding to the Index of Indicator, the leftmost binary bit 112. Set to true if supporting all functionalities in the feature group. |
| 13 | Trigger type 0 SRS (periodic SRS) transmission on X Serving Cells NOTE: X = number of supported component carriers in a given band combination | - this bit can be set to 1 only if the UE supports carrier aggregation in UL. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_113_F | Corresponding to the Index of Indicator, the leftmost binary bit 113. Set to true if supporting all functionalities in the feature group. |
| 14 | - Reporting of both UTRA CPICH RSCP and Ec/N0 in a Measurement Report | - this bit can be set to 1 only if index 22 (Table B.1-1) is set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_114_F | Corresponding to the Index of Indicator, the leftmost binary bit 114. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 14 in Table A.4.5-3b for TDD. |
| 15 | time domain ICIC RLM/RRM measurement subframe restriction for the serving cell time domain ICIC RRM measurement subframe restriction for neighbour cells time domain ICIC CSI measurement subframe restriction | | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_115_F | Corresponding to the Index of Indicator, the leftmost binary bit 115. Set to true if supporting all functionalities in the feature group. |
| 16 | - Relative transmit phase continuity for spatial multiplexing in UL | - this bit can be set to 1 only if the UE supports two or more layers for spatial multiplexing in UL. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_116_F | Corresponding to the Index of Indicator, the leftmost binary bit 116. Set to true if supporting all functionalities in the feature group. |
| 17 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 117. |
| 18 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 118. |
| 19 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 119. |
| 20 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 120. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|------------------------|-------|---|---------|-------------------|----------|---|
| 21 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 121. |
| 22 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 122. |
| 23 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 123. |
| 24 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 124. |
| 25 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 125. |
| 26 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 126. |
| 27 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 127. |
| 28 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 128. |
| 29 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 129. |
| 30 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 130. |
| 31 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 131. |
| 32 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 132. |

Table A.4.5-3b: Release 10 AS feature group indicators 101-132 for TDD

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|--|---|---------|-------------------|-------------------|---|
| 1 | - DMRS with OCC (orthogonal cover code) and SGH (sequence group hopping) disabling | - if the UE supports two or more layers for spatial multiplexing in UL, this bit shall be set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_101_T | Corresponding to the Index of Indicator, the leftmost binary bit 101. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 1 in Table A.4.5-3a for FDD. |
| | | - If a category 0 UE does not support this feature, this bit shall be set to 0. | | Rel-12 | | | |
| 2 | Trigger type 1 SRS (aperiodic SRS) transmission (Up to X ports) NOTE: X = number of supported layers on given band | | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_102_T | Corresponding to the Index of Indicator, the leftmost binary bit 102. Set to true if supporting all functionalities in the feature group. |
| 3 | - PDSCH transmission mode 9 when up to 4 CSI reference signal ports are configured | - for Category 8 UEs, this bit shall be set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_103_T | Corresponding to the Index of Indicator, the leftmost binary bit 103. Set to true if supporting all functionalities in the feature group. |
| 4 | - PDSCH transmission mode 9 for TDD when 8 CSI reference signal ports are configured | if the UE does not support TDD, this bit is irrelevant (capability signalling exists for FDD for this feature), and this bit shall be set to 0. for Category 8 UEs, this bit shall be set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_104_T | Corresponding to the Index of Indicator, the leftmost binary bit 104. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 4 in Table A.4.5-3a for FDD. |
| 5 | Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 – UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 – UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured | - this bit can be set to 1 only if indices 2 (Table B.1-1) and 103 are set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_105_T | Corresponding to the Index of Indicator, the leftmost binary bit 105. Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|--|---|---|------------------|-------------------|-------------------|--|
| | | - For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if index 2 is set to 1 for both FDD and TDD, and index 103 is set to 1 either for FDD and TDD. | | Rel-12 | | | |
| | - Periodic CQI/PMI/RI/PTI reporting on PUCCH: Mode 2-1 – UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured | - this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if <i>tm9- With-8Tx-FDD-r10</i> is set to "supported") and if index 2 (Table B.1-1) is set to 1. - For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to "supported", and if index 2 is set to 1 for both FDD and | | Rel-10 Rel-12 | 36.331, Annex C.1 | pc_FeatrGrp_106_T | Corresponding to the Index of Indicator, the leftmost binary bit 106. Set to true if supporting all functionalities in the feature group. |
| | Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured | TDD. - this bit can be set to 1 only if indices 1 (Table B.1-1) and 103 are set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_107_T | Corresponding to the Index of Indicator, the leftmost binary bit 107. Set to true if supporting all functionalities in the feature group. |
| 8 | - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured | - this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if <i>tm9- With-8Tx-FDD-r10</i> is set to "supported") and if index 1 (Table B.1-1) is set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_108_T | Corresponding to the Index of Indicator, the leftmost binary bit 108. Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|---|---|---|---------|-------------------|-------------------|--|
| 9 | - Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 1 | - this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if <i>tm9- With-8Tx-FDD-r10</i> is set to "supported"). | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_109_T | Corresponding to the Index of Indicator, the leftmost binary bit 109. Set to true if supporting all functionalities in the feature group. |
| | | - For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to "supported". | | Rel-12 | | | |
| 10 | - Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 2 | - this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if <i>tm9- With-8Tx-FDD-r10</i> is set to "supported"). | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_110_T | Corresponding to the Index of Indicator, the leftmost binary bit 110. Set to true if supporting all functionalities in the feature group. |
| | | - For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to "supported". | | Rel-12 | | | |
| 11 | - Measurement reporting trigger Event A6 | - this bit can be set to 1 only if the UE supports carrier aggregation. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_111_T | Corresponding to the Index of Indicator, the leftmost binary bit 111. Set to true if supporting all functionalities in the feature group. |
| 12 | - SCell addition within the Handover to EUTRA procedure | - this bit can be set to 1 only if the UE supports carrier aggregation and the Handover to EUTRA procedure. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_112_T | Corresponding to the Index of Indicator, the leftmost binary bit 112. Set to true if supporting all functionalities in the feature group. |
| 13 | Trigger type 0 SRS (periodic SRS) transmission on X Serving Cells NOTE: X = number of supported component carriers in a given band combination | - this bit can be set to 1 only if the UE supports carrier aggregation in UL. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_113_T | Corresponding to the Index of Indicator, the leftmost binary bit 113. Set to true if supporting all functionalities in the feature group. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and | Release | Ref. | Mnemonic | Comments |
|------|--|---|---|---------|-------------------|-------------------|--|
| | | | successfully tested for the corresponding release | | | | |
| 14 | - Reporting of both UTRA CPICH RSCP and Ec/N0 in a Measurement Report | - this bit can be set to 1 only if index 22 (Table B.1-1) is set to 1. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_114_T | Corresponding to the Index of Indicator, the leftmost binary bit 114. Set to true if supporting all functionalities in the feature group. If UE supports FDD and TDD this item shall be set to same value as for item 14 in Table A.4.5-3a for FDD. |
| 15 | time domain ICIC RLM/RRM measurement subframe restriction for the serving cell time domain ICIC RRM measurement subframe restriction for neighbour cells time domain ICIC CSI measurement subframe restriction | | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_115_T | Corresponding to the Index of Indicator, the leftmost binary bit 115. Set to true if supporting all functionalities in the feature group. |
| 16 | - Relative transmit phase continuity for spatial multiplexing in UL | this bit can be set to 1 only if the UE supports two or more layers for spatial multiplexing in UL. | | Rel-10 | 36.331, Annex C.1 | pc_FeatrGrp_116_T | Corresponding to the Index of Indicator, the leftmost binary bit 116. Set to true if supporting all functionalities in the feature group. |
| 17 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 117. |
| 18 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 118. |
| 19 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 119. |
| 20 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 120. |
| 21 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 121. |
| 22 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 122. |
| 23 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 123. |

| Item | Additional information | Notes | If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release | Release | Ref. | Mnemonic | Comments |
|------|------------------------|-------|---|---------|-------------------|----------|---|
| 24 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 124. |
| 25 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 125. |
| 26 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 126. |
| 27 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 127. |
| 28 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 128. |
| 29 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 129. |
| 30 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 130. |
| 31 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 131. |
| 32 | Undefined | | | Rel-10 | 36.331, Annex C.1 | | Corresponding to the Index of Indicator, the leftmost binary bit 132. |

Annex B (informative): Test Case Branching

B.1 Introduction

Test Case dynamic behaviour consist of a sequence of actions taken e.g. by the UE or the SS. Depending e.g. on the UE capabilities, configuration or implementation different paths within this sequence may be executed or skipped. For the purpose of the present annex the existence of such pats is denoted as 'branching' and the paths as 'branches'.

Test Cases consist of a Preamble, a Test body (procedure) and a Postamble. Each of these 3 distinctive parts may contain multiple test branches.

Preambles will be the same for many (most) TCs. For example UE state Registered, Idle mode (state 2). Similarly Postambles will in their majority contain common actions. It should be noted that the basic Preambles and Postambles are part of the Test body (procedure) in a number of TCs

The UE capabilities/configuration options in general are identified by ICS/IXIT defined in TS 36.523-2 and 36.523-3 respectively. Many of these ICS/IXIT have then been used to determine which of a set of branches a TC may go during execution; some have been used to define TC Applicability, and, some have been used for both.

Table 4-1 'Applicability of tests and additional information for testing' contains two columns dedicated to Specific ICS and IXIT which have impact on the TC dynamic behaviour branching and are used in the TC prose and the TTCN implementation. These columns are intended to cover ICS/IXIT which have impact only on the TC body where the TC verdict(s) are assigned and not on the Preamble/Postamble of the TC.

Whereas most of the TC branches have one or more associated ICS/IXIT, in exceptional cases optional UE behaviour which is handled by the SS "on the go", i.e. if the UE does it then the SS will respond accordingly, does not have associated ICS/IXIT.

Note: Providing information which makes the existence of optional behaviour branches more explicit and details on the ICS and IXIT which have impact on the branching of the Preambles/Postambles can be useful e.g. for certification organisations validation purposes.

Information on the Specific ICS and IXIT which have impact on the branching of the Preambles/Postambles is provided in B.3. Special ICS to identify optional branches are defined in section B.2.

B.2 Special ICS to identify optional branches

Table B.2-1 provides a list of ICS definitions describing optional UE behaviour which is not associated with a ICS defined in Annex A.

The ICS specified in the present section are not used in TTCN or in TC prose specification. The provision of answer if the UE supports any of one these ICS is not a prerequisite for TC execution. Rather, the ICS are specified for the sole purpose of facilitating the work of any organisation, e.g. TC validation in Certification organisation, in identifying the optional test branches through which an UE has gone during test execution.

| Item | Definition | Ref. | Release | Mnemonic | Comments |
|------|--|------|---------|--------------------------------|----------|
| 1 | The UE performs IPv4 address allocation by DHCPv4 on the user plane | | Rel-8 | pb_IPv4_DHCPv4_AAUP | |
| 2 | The UE sets the ESM information transfer flag in the last PDN CONNECTIVITY REQUEST message | | Rel-8 | pb_ESM_InfoTransFlag_P DNCR | |

Table B.2-1: UE optional behaviour

B.3 Test Case Preambles and Postambles specific information

The present section is dedicated for providing additional information on Preambles and Postambles used in the TCs specified in TS 36.523-1. The ICS included in column 'Specific ICS' are defined in Annex A and Annex B.2; the IXIT included in column 'Specific IXIT' are defined in 36.523-3 section 9; for ICS/IXIT specified in other documents, specific reference is provided.

| Item | Preamble Title | Ref. | Specific ICS | Specific IXIT |
|------|------------------------------|------|--|---------------|
| 1 | UE Registration (State 2) | - | pc_eFDD pc_eTDD pc_IMS pc_Provide_Internet_as_second_APN pc_Provide_IMS_as_second_APN pc_IPv4 pc_IPv6 pc_XCAP_only_APN pc_UE_supports_user_initiated_PDN_discon nect pc_attach pc_combined_attach pc_SMIEV6 pc_IMS_APN_default pc_Provide_IMS_APN pc_DSMIEV6 pc_RequestIPv6HAAddress_DuringAttach pc_RequestIPv6HAAddress_DuringAttach pb_ESM_InfoTransFlag_PDNCR pb IPv4_DHCPv4_AAUP | |

Table B.3-1: TC Preambles specific information

Annex B (informative): Change history

| Date | TSG # | TSG Doc. | CR | R e v | Subject/Comment | Old | New |
|---------|------------------------|-----------|------|-------------|--|-------|-------|
| 2007-11 | - | - | - | - | Initial version | | 0.0.1 |
| 2008-02 | - | - | - | - | Addition applicability 6 new LTE RRC test cases. | 0.0.1 | 0.1.0 |
| 2008-04 | - | - | - | - | Editorial corrections | 0.1.0 | 0.1.1 |
| 2008-05 | - | - | - | - | Extend the Applicability table scope with additional information for testing which may include: - relevant per TC Specific PICS statements - relevant per TC Specific PIXIT statements Updated TC applicability with contributions to RAN5#39 | 0.1.1 | 0.2.0 |
| 2008-06 | - | - | - | - | Added TCs agreed at RAN5#39bis Updating TCs names, numbers, removed TCs deleted from the TC list Editorial update | 0.2.0 | 0.3.0 |
| 2008-09 | RP-41 | RP-080595 | - | - | Submitted for information. Update in accordance with RAN5#40 (Editorial update and input from R5-083453, R5-083517, R5-083654) | 0.3.0 | 1.0.0 |
| 2008-09 | post RAN5#40 | - | - | - | Update to reflect the agreed during the RAN5#40 extended e-mail agreement input: - All agreed new TCs added - One modified TCs title reflected | 1.0.0 | 1.0.1 |
| 2008-10 | post RAN5#40 bis | - | - | - | Added new agreed at RAN5#40bis TCs Removed TCs that are removed from the LTE/SAE WP (R5-084008) Added TCs that exist as 80% completed in the LTE/SAE WP (R5-084008) but do not exist in 36.523-2 Modified agreed RAN5#40bis new TC numbers Updated TCs titles to match those in the LTE/SAE WP (R5-084008) | 1.0.1 | 1.1.0 |
| 2008-11 | Post RAN5#41 | - | - | - | R5-085361: - New TCs added to applicability table - TCs titles updated - TC 9.2.2.1.2 removed from applicability table - Table for provision of test loops added - Editorial changes | 1.1.0 | 2.0.0 |
| 2008-12 | RAN#42 | RP-080860 | | | Approval of version 2.0.0 at RAN#42, then put to version 8.0.0. | 2.0.0 | 8.0.0 |
| 2008-01 | | | | | Editorial corrections. | 8.0.0 | 8.0.1 |
| 2009-03 | RAN#43 | R5-090101 | 0001 | - | Removal of reference to 11-bit Length Indicator in E-UTRA RLC test cases | 8.0.1 | 8.1.0 |
| 2009-03 | RAN#43 | R5-090292 | 0002 | 1 | Applicability of new E-UTRA PDCP test case - 7.3.5.4 | 8.0.1 | 8.1.0 |
| 2009-03 | RAN#43 | R5-090569 | 0003 | - | Updating applicability table with input relevant to agreed at RAN5#41bis 36.523-1 CRs | 8.0.1 | 8.1.0 |
| 2009-03 | RAN#43 | R5-090668 | 0004 | - | Batch 1B - Applicability of new E-UTRA PDCP test cases | 8.0.1 | 8.1.0 |
| 2009-03 | RAN#43 | R5-090737 | 0005 | - | Update of Applicability table for EPS mobility management test cases | 8.0.1 | 8.1.0 |
| 2009-03 | RAN#43 | R5-090738 | 0006 | - | Batch 1: Applicability for new MAC test cases 7.1.3.9 & 7.1.4.12 | 8.0.1 | 8.1.0 |
| 2009-03 | RAN#43 | R5-090751 | 0007 | - | Addition of Applicability new LTE test cases | 8.0.1 | 8.1.0 |
| 2009-05 | RAN#44 | R5-092056 | 8000 | | GCF Priority 2 - Adding TC 9.1.2.5 to applicability | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092091 | 0009 | | GCF Priority 2 - Addition of applicability statement for E-UTRAN test case 6.1.2.7 for Cell reselection: Equivalent PLMN | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092116 | 0010 | 1 | GCF Priority 1 - Applicability of new E-UTRA MAC test cases | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092117 | | | GCF Priority 1 - Proposal to remove E-UTRA RLC test case 7.2.3.19 (Part 2) | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092207 | 0012 | - | GCF Priority 2 - Addition of applicability for new EMM test case | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092215 | | | GCF Priority 2 - Addition of applicability for new idle mode and | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092254 | 0014 | | RRC test cases Update of Applicability table for agreed EMM test cases in RAN5#42bis | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092255 | 0015 | 1 | GCF Priority 2 - Applicability for new idle mode test cases | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092279 | | 1 | Addition of Applicability New LTE Test cases | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092404 | | ĺ | GCF priority 2: Applicability statements for the new MAC DRX test cases | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092407 | 0018 | | GCF Priority 2 - Addition of applicability for UM RLC test case 7.2.2.11 | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092415 | 0019 | | GCF Priority 2: Applicability of new EMM test cases | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092416 | | | GCF Priority 2: Applicability of new Cell Selection test cases | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092424 | 0021 | | Addition of LTE Operating Band Capabilities for FDD Mode Test | 8.1.0 | 8.2.0 |

| Date | TSG # | TSG Doc. | CR | R e v | Subject/Comment | Old | New |
|--------------------|------------------|------------------------|--------------|-------------|---|-------|-------|
| | | | | | frequencies | | |
| 2009-05 | RAN#44 | R5-092432 | 0022 | | GCF Priority 2 - Addition of Applicability statement for MAC test case 7.1.4.14 | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092433 | | | GCF Priority 2: Applicability of new Cell Reselection test cases | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092448 | | | Update of Applicability for Feature Group Indicators | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092450 | 0025 | | GCF Priority 1 - Update of applicability for RRC part 3 test cases based on Feature Group Indicators | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092508 | 0026 | | Missing applicability of EMM/ESM test cases | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092509 | 0027 | | Applicability of new EMM & ESM test cases | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092586 | | | GCF Priority 1 - Update of applicability for RLC test cases | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092769 | | | GCF Priority 2 - Applicability of new RRC test case 8.3.2.6 | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092770 | 0030 | | GCF Priority 2 - Update of applicability for MAC test cases based on Feature Group Indicators | 8.1.0 | 8.2.0 |
| 2009-05 | RAN#44 | R5-092783 | 0031 | | Addition of applicability for new idle mode CSG test cases | 8.1.0 | 8.2.0 |
| 2009-09 | RAN#45 | R5-094183 | 0032 | - | Missing TCs applicability in 36-523-2 | 8.2.0 | 8.3.0 |
| 2009-09 | RAN#45 | R5-094206 | | - | GCF Priority 3 - Remove RRC test case 8.1.3.3 applicability | 8.2.0 | 8.3.0 |
| 2009-09 | RAN#45 | R5-094302 | | 1 | Update of Feature Group Indicators | 8.2.0 | 8.3.0 |
| 2009-09 | RAN#45 | R5-094404 | | - | GCF Priority 2 - Applicability Statement for 8.3.2.1 | 8.2.0 | 8.3.0 |
| 2009-09 | RAN#45 | R5-094535 | | - | Update of Applicability for PDCP tc based on FGI | 8.2.0 | 8.3.0 |
| 2009-09 | RAN#45 | R5-094683 | | - | GCF Priority 2 - Update of applicability for RLC test case 7.2.2.11 | 8.2.0 | 8.3.0 |
| 2009-09 | RAN#45 | R5-094722 | 0038 | - | Correction of TC titles on RRC part 2 (8.2 RRC Connection Reconfiguration) | 8.2.0 | 8.3.0 |
| 2009-09 | RAN#45 | R5-094727 | 0039 | 1 | Update of test case applicability for feature group indicators for RRC part 2 (8.2 RRC Connection Reconfiguration) | 8.2.0 | 8.3.0 |
| 2009-09 | RAN#45 | R5-095033 | 0040 | - | GCF Priority 2 - Addition of applicability for new SMS over SGs test cases | 8.2.0 | 8.3.0 |
| 2009-09 | RAN#45 | R5-095224 | 0041 | 1 | GCF Priority 2 - Update of applicability for LTE-C2k interworking test cases | 8.2.0 | 8.3.0 |
| 2009-09 | RAN#45 | R5-095225 | 0042 | 1 | Corrections to PICS for PS and CS registration and applicability of EMM test cases | 8.2.0 | 8.3.0 |
| 2009-09 | RAN#45 | R5-095226 | 0043 | 1 | merge of 36.523-2 EMM CRs from RAN5#44 | 8.2.0 | 8.3.0 |
| 2009-09 | RAN#45 | R5-095229 | | - | Applicability for Idle Mode test cases | 8.2.0 | 8.3.0 |
| 2009-11 | GERAN #44 | GP-092406 | | - | Addition of new Test Case 6.2.3.21 | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-095479 | 0046 | _ | Applicability of new TC 6.2.3.6 | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-095480 | | - | Applicability of new/removed RRC Part 2 test cases | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-095483 | | - | Applicability of new ESM test cases | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-095526 | | - | GCF Priority 1 - Update of RLC test case applicability | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-095673 | | - | Applicability for new IDLE MODE test case 6.1.2.13 | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | | 0051 | - | Addition of applicability for new DSMIPv6 test cases | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-095989 | 0052 | - | Wrong reference in TC applicability condition C01 | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-096064 | | - | GCF Priority 1 - Corrections to MAC test case applicability | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-096119 | 0054 | 2 | Applicability for section 8.4 RRC Inter-RAT test cases NTT DOCOMO | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-096134 | 0055 | - | GCF Priority 3 - Correction to E-UTRA DRB test case 12.3 | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-096136 | 0056 | - | GCF Priority 3 - Applicability of new E-UTRA DRB test case 12.3 | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-096659 | 0057 | - | GCF Priority 2 - Addition of applicability for new test case 11.1.4 | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-096702 | 0058 | - | Add applicabilities for test case 8.1.3.7 and 8.5.2.1 | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-096703 | 0059 | - | GCF Priority 3 - Add applicabilities for new test case 8.3.1.11 | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-096704 | | - | Update of Applicability table for Multi-layer Procedure test cases | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-096705 | | - | EMM CRs from RAN5#45 | 8.3.0 | 8.4.0 |
| 2009-12 | RAN#46 | R5-096710 | 0061 | - | GCF Priority 3 - Addition of applicability for new LTE-C2k interworking test cases | 8.3.0 | 8.4.0 |
| 2010-03 | RAN#47 | R5-100080 | | - | Addition of applicability for new multi-layer test case | 8.4.0 | 8.5.0 |
| 2010-03 | RAN#47 | R5-100179 | | - | Applicability for new EMM test case 9.2.1.2.14 | 8.4.0 | 8.5.0 |
| 2010-03 | RAN#47 | R5-100286 | | -] | Update of Applicability table of TC 8.4.2.4 | 8.4.0 | 8.5.0 |
| 2010-03 | RAN#47 | R5-100333 | | - | Addition of TDD RF Baseline Implementation Capabilities | 8.4.0 | 8.5.0 |
| 2010-03 | RAN#47 | R5-100479 | | - | Addition of applicability for new DSMIPv6 test cases | 8.4.0 | 8.5.0 |
| 2010-03 | RAN#47 | R5-100498 | 0068 | - | GCF priority 3 - Applicability Statements for new PUSCH Hopping test cases | 8.4.0 | 8.5.0 |
| 2010-03 | RAN#47 | R5-100747 | 0069 | - | Adding PICS for UE UTRAN and GERAN types | 8.4.0 | 8.5.0 |
| 2010-03 | RAN#47 | R5-101030 | | - | GCF Priority 3 - Adding TC 9-1-5-1 EMM Information Procedure applicability | 8.4.0 | 8.5.0 |
| | | | | - | Addition of applicability for new LTE-C2k interworking test cases | 8.4.0 | 8.5.0 |
| | RAN#47 | R5-101143 | 0071 | | | 0.4.0 | |
| 2010-03 2010-03 | RAN#47 RAN#47 | R5-101143 R5-101193 | | - | GCF Priority 3 - Addition of applicability statement for E-UTRAN | 8.4.0 | 8.5.0 |
| 2010-03 2010-03 | RAN#47 | R5-101193 | 0072 | - | GCF Priority 3 - Addition of applicability statement for E-UTRAN test case 13.4.1.2 | 8.4.0 | 8.5.0 |
| 2010-03 | | | 0072 0073 | - | GCF Priority 3 - Addition of applicability statement for E-UTRAN | | |

| Date | TSG # | TSG Doc. | CR | R e v | Subject/Comment | Old | New |
|--------------------|------------------|------------------------|------|-------------|--|----------------|----------------|
| 2010-03 | RAN#47 | R5-101197 | 0076 | - | Corrections to applicability table to align to TS 36.523-1 | 8.4.0 | 8.5.0 |
| 2010-03 | RAN#47 | R5-101198 | 0077 | - | Correction of the Applicability of GCF Priority 2 NAS test case 9.2.2.1.1 | 8.4.0 | 8.5.0 |
| 2010-03 | RAN#47 | R5-101199 | | - | Update of applicability of ESM test cases | 8.4.0 | 8.5.0 |
| 2010-03 | RAN#47 | RP-100116 | | - | Test Case titles alignment | 8.4.0 | 8.5.0 |
| 2010-03 | RAN#47 | GP-100099 | 0064 | - | Addition of new Test Case 6.2.3.22 | 8.4.0 | 8.5.0 |
| 2010-03 | RAN#47 | - | - | - | Moved to v9.0.0 with no change | 8.5.0 | 9.0.0 |
| 2010-06 | RAN#48 | | | | Addition of new GELTE test cases 6.2.3.28 and 6.2.3.30 | 9.0.0 | 9.1.0 |
| 2010-06 | RAN#48 | GP-100674 | | | New test cases for GERAN to LTE added Part 2 | 9.0.0 | 9.1.0 |
| 2010-06 2010-06 | RAN#48 RAN#48 | R5-103122 R5-103146 | | - | Adding band 20 and 21 to TS36.523-2 GCF Priority 4 - Addition of applicability statement for E-UTRAN | 9.0.0 9.0.0 | 9.1.0 9.1.0 |
| 2010-06 | RAN#48 | R5-103246 | 0094 | - | test case 14.1 and 14.2 Applicability of new TC 13.1.5 Note: This CR is wrongly identified on its cover page and in RP-100510 as CR0802. | 9.0.0 | 9.1.0 |
| 2010-06 | RAN#48 | R5-103270 | 0084 | - | Modification of applicability condition for UTRAN in 36.523-2 | 9.0.0 | 9.1.0 |
| 2010-06 | RAN#48 | R5-103314 | | - | GCF Priority 2 - Correction to applicability of test case 7.1.4.3 Note: This CR is wrongly identified on its cover page and in RP-100510 as being to 34.123-2 | 9.0.0 | 9.1.0 |
| 2010-06 | RAN#48 | R5-103369 | 0086 | - | GCF Priority 1: Update of TC titles and formatting in applicability table | 9.0.0 | 9.1.0 |
| 2010-06 | RAN#48 | | | - | GCF Priority 3: New TC 9.3.1.6 applicability | 9.0.0 | 9.1.0 |
| 2010-06 | RAN#48 | | 0088 | - | Correction for feature group indicators in Annex A.4.5 | 9.0.0 | 9.1.0 |
| 2010-06 | RAN#48 | | 0089 | - | GCF Priority 2: Update of EMM test case applicability using new UE implementation capabilities to control UE attach type | 9.0.0 | 9.1.0 |
| 2010-06 | RAN#48 | R5-103878 | | - | GCF Priority 3: Applicability statements for new P3&P4 TCs | 9.0.0 | 9.1.0 |
| 2010-06 | RAN#48 | R5-103879 | | - | Applicability for GCF Priority test cases 9.2.1.1.4, 9.3.1.18, 13.1.8 | 9.0.0 | 9.1.0 |
| 2010-06 | RAN#48 | R5-103880 | 0092 | - | GCF priority 3 - Adding new 6.2.1 test cases to the applicability table | 9.0.0 | 9.1.0 |
| 2010-06 | - | - | - | - | Adds note to the entry for CR0094 above. | 9.1.0 | 9.1.1 |
| 2010-06 | - | - | - | - | Adds note to the entry for CR0085 above. | 9.1.1 | 9.1.2 |
| 2010-09 | 47 | GP-101176 | | - | CR 36.523-2-0095 6.2.3.19 : Redirection to E-UTRA upon the release of the CS connection | 9.1.2 | 9.2.0 |
| 2010-09 | GERAN# 47 | GP-101178 | | - | CR 36.523-2-0096 6.2.3.20: Redirection to E-UTRA upon the release of the CS connection and no suitable cell available | 9.1.2 | 9.2.0 |
| 2010-09 | GERAN# 47 | GP-101564 | | - | CR 36.523-2-0097 Addition of new GELTE test cases- 6.2.3.27 and 6.2.3.29 | | 9.2.0 |
| 2010-09 | GERAN# 47 | GP-101565 | | - | CR 36.523-2-0098 Adding TC 6.2.3.14 and 6.2.3.15 | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-104068 | | - | Correction to test case applicability C41 | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-104116 | | - | Addition of applicability for new EMM test case | 9.1.2 | 9.2.0 |
| 2010-09 2010-09 | RAN#49 RAN#49 | R5-104117 R5-104290 | | - | Update of applicability for EMM test case 9.2.1.1.4 GCF Priority 4 - Addition of applicability statement for E-UTRAN | 9.1.2 9.1.2 | 9.2.0 9.2.0 |
| 2010-09 | RAN#49 | R5-104315 | 0103 | | test case 14.3 Add pics for IMS | 012 | 9.2.0 |
| 2010-09 | RAN#49 RAN#49 | R5-104315 R5-104337 | | - | Applicability of new EMM TCs | 9.1.2 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-104338 | | - | Applicability of new IDLE mode TCs | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-104339 | | - | Applicability of new RRC part 1 TCs | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-104391 | | - | Removal of applicability for DSMIPv6 test case 15.3 | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | | 0108 | - | Clarification of UE behaviour when a UTRAN or GERAN capable UE is configured to initiate EPS attach | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-104636 | 0109 | - | Addition of applicability for new multi-layer test case 13.1.2 | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-104638 | | - | Applicability for new test case 8.2.4.12 | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-104641 | | - | Applicability for new emergency call TC | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-104642 | | - | Add capability for IMS emergency call | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-105029 | | - | Clarification to release column in tables A.4.3.1-1 and A.4.3.1-2 | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-105036 | | - | Correction to test case applicability condition C59 | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-105037 | | - | Correction to test case applicability condition for test case 9.3.1.16 | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-105038 | | - | Correction to test case applicability for test cases 12.3.3 & 12.3.4 | 9.1.2 | 9.2.0 |
| 2010-09 2010-09 | RAN#49 RAN#49 | R5-105042 R5-105043 | | - | Addition of some EMM TCs applicability to 36.523-2 Corrections to applicability conditions C58 and C65 | 9.1.2 9.1.2 | 9.2.0 9.2.0 |
| 2010-09 | RAN#49 RAN#49 | R5-105043 | | - | GCF Priority X: Adding applicability of new ESM test case 10.9.1 | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-105045 | 0120 | - | for UE routing of uplinks packets Addition of applicability statement of new TC 6.3.3 | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 RAN#49 | R5-105045 R5-105048 | | <u>-</u> | GCF Priority 2 - Addition of applicability statement of new TC 6.3.3 | 9.1.2 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 RAN#49 | R5-105048 | | Ĺ | test case 6.2.3.4 GCF Priority 2 - Correction of applicability statement for E-UTRAN | 9.1.2 | 9.2.0 |
| 2010-09 | | R5-105049 R5-104766 | | - | GCF Priority 2 - Correction of applicability statement for E-UTRAN test case 8.1.3.7, 8.4.2.2 & 8.4.2.4 GCF Priority 2 - Correction to EUTRA RRC Test Case 8.3.1.9 | | |
| 2010-09 | RAN#49 RAN#49 | R5-104766 R5-104775 | | - - | Addition of applicabilities for new test cases | 9.1.2 9.1.2 | 9.2.0 9.2.0 |

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|---------|--------------|-----------|------|-------------|--|-------|-------|
| 2010-09 | RAN#49 | R5-105039 | 0126 | - | GCF Priority 3 - Add Applicability for Multi-layer test case 13.1.4 | 9.1.2 | 9.2.0 |
| 2010-09 | RAN#49 | R5-105040 | | - | GCF Priority 3 - Add Applicability for EMM test case 9.2.2.1.3 | 9.1.2 | 9.2.0 |
| 2010-12 | RAN#50 | R5-106141 | | - | Applicability for RRC connection establishment of emergency call / Limited Service | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106142 | 0133 | - | Correct TC number emergency call | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106184 | 0134 | - | GCF Priority 3 - Correction of applicability statement for E-UTRAN test case 6.1.2.13 | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106185 | 0135 | - | Addition of applicability statement for E-UTRAN test case 6.2.3.31 | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106191 | 0136 | - | GCF Priority 1, P3 and P4 : Addition of new PICS to table A.4.4-1 | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106258 | | - | Applicability of new RRC part 1 TC | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106259 | | - | Applicability of new Multilayer Procedures TC | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106299 | | - | Addition of applicability for new idle mode test case on inter-freq cell reselection based on CSG autonomous search | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106359 | 0140 | - | Applicability for New TCs of cell reselection when 1xRTT is higher/lower priority | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106389 | 0141 | - | GCF Priority 4 - Add Applicability for PLMN selection test case 6.1.1.2 | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106467 | 0142 | - | Correction to applicability condition for test case 13.1.5 | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106554 | 0143 | - | CR to 36.523-2: Update Table A.4.3.1-2 for band 41 TDD LTE 2600MHz to RF baseline implementation capabilities. | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106562 | 0144 | - | GCF Priority 2 – Addition of PICS statement related with UTRA compressed mode | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106639 | 0151 | - | GCF Priority 4 - Applicability of Section 6.3 TCs | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106646 | 0145 | - | GCF priority x: Applicability for new test cases 9.2.1.2.1c and 9.2.3.2.1c | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106663 | 0146 | - | Update of Applicability table for EMM test cases | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106664 | 0147 | - | GCF Priority 3 - Correction to applicability condition C48 | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106668 | 0148 | - | GCF Priority 4 - Correction to the applicability for test case 8.1.7.3 | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106677 | 0149 | - | GCF Priority 3 - Add Applicability for EMM test case 9.2.3.2.13 | 9.2.0 | 9.3.0 |
| 2010-12 | RAN#50 | R5-106683 | 0150 | - | GCF Priority 3 - Addition of test case selection expression for test case 9.2.3.3.4 | 9.2.0 | 9.3.0 |
| 2011-03 | GERAN# 49 | GP-110022 | 0152 | - | CR 36.523-2-0152 New test cases 6.2.3.17 and 6.2.3.18 added Part 2 | 9.3.0 | 9.4.0 |
| 2011-03 | GERAN# 49 | GP-110045 | 0153 | - | CR 36.523-2-0153 Addition of new GELTE test case 6.2.3.29 | 9.3.0 | 9.4.0 |
| 2011-03 | GERAN# 49 | GP-110096 | 0155 | - | CR 36.523-2-0155 New test cases 6.2.1.6, 6.2.3.16, 6.2.3.17, 6.2.3.24, 6.2.3.26 added in Part 2 | 9.3.0 | 9.4.0 |
| 2011-03 | GERAN# 49 | GP-110431 | 0154 | 1 | CR 36.523-2-0154 Addition of new Test cases 8.4.4.1 and 8.4.4.2 | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110188 | 0180 | - | GCF Priority 4 - Addition of test case selection expression for test case 6.1.1.3 | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110196 | 0181 | - | GCF Priority 3 - Correction to EMM test case 9.3.1.15 | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110213 | 0182 | - | GCF Priority 2 Correction of applicability statement for Non- supported FGI 16 test cases | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110214 | 0183 | - | Addition of applicability statement for E-UTRAN test case 6.2.3.32 for Inter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle, Snonintrasearch | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110339 | 0184 | - | Addition of applicability for new idle mode test case on manual CSG ID selection across PLMNs | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110340 | 0185 | - | Addition of applicability for new idle mode test case on inter-freq cell reselection to hybrid cell based on CSG autonomous search | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110236 | 0156 | - | Correction to applicability of tests conditions for RRC part 3 TCs | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110238 | | 1- | Correction to applicability of tests conditions for inter-RAT TCs | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110314 | | - | GCF Priority 4 - Correction to 8.2.4.10 test applicability | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110315 | | - | GCF Priority 3 - Correction to applicability condition for test case 13.1.4 | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110343 | 0160 | - | Addition of applicability for new test case on Service request for mobile originating 1xCS fallback emergency call | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110344 | 0161 | - | | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110409 | 0162 | - | Applicability condition for new test case 11.2.1 for CT1 aspects of emergency calls | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110461 | 0163 | - | Correct condition for emergency | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110474 | | - | Addition of applicability for new test case 6.3.2 | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110476 | | - | GCF Priority 4: Applicability for New TC 13.1.9 | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110480 | | - | Applicability for New IMS Emergency TCs | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110537 | | - | Adding new operating bands 42 and 43 (3500MHz) | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110568 | 0168 | - | Corrections of idle mode test case titles in applicability table | 9.3.0 | 9.4.0 |

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|--------------------|------------------|------------------------|------|-------------|--|----------------|----------------|
| 2011-03 | RAN#51 | R5-110592 | 0169 | - | GCF Priority X: Adding applicability for test case 9.2.1.2.1d Combined attach procedure / Success / EPS and CS Fallback not preferred/data centric UE | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110598 | | - | | 9.3.0 | 9.4.0 |
| 2011-03 2011-03 | RAN#51 RAN#51 | R5-110720 R5-110761 | | - | GCF Priority 1 - Addition of applicability for multiple PDN GCF Priority 3 - Correction to selection expression for SPS | 9.3.0 9.3.0 | 9.4.0 9.4.0 |
| 2011-00 | | 10701 | 0172 | | scheduling and TTI bundling test cases | 0.0.0 | 5.4.0 |
| 2011-03 | RAN#51 | R5-110762 | 0173 | - | GCF Priority 3 - Addition of applicability statement for new test case 6.2.2.x | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110763 | | - | GCF Priority 3-add part2 for TC 9.2.3.2.1a | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110780 | | - | Add Applicability for new Multilayer Procedures test case 13.4.1.3 | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110782 | 0176 | - | GCF Priority 4 - Addition of test case selection expression for test case 6.1.2.1 | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110799 | 0177 | - | Update of applicability for test case 8.1.2.10 | 9.3.0 | 9.4.0 |
| 2011-03 | RAN#51 | R5-110800 | 0178 | - | GCF Priority X: Addition of applicability for SIG TC 7.1.8.1: Periodic RI reporting using PUCCH / Category 1 UE / Transmission mode 3/4 | | 9.4.0 |
| 2011-03 | RAN#51 | | 0179 | - | Clarification to applicability of measurements requirements for Inter-RAT | 9.3.0 | 9.4.0 |
| 2011-06 | RAN#52 | R5-112132 | | - | Correction to Band 12 frequency range in 36.523-2 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112163 | | - | Applicability of new Multi-layer Procedure TCs | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 RAN#52 | R5-112179 R5-112272 | | - | Add applicability for GCF Priority 3 TC 9.2.3.3.5a Applicability of new test case 9.2.3.1.22 | 9.4.0 9.4.0 | 9.5.0 9.5.0 |
| 2011-06 | RAN#52 RAN#52 | R5-112272 R5-112273 | | - | Add capability for SRVCC | 9.4.0 9.4.0 | 9.5.0 |
| 2011-00 | RAN#52 | R5-112273 | | - | Add GSMA PRD IR.92 IMS voice capability | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112292 | | - | GCF Priority 4 - Correction to applicability of TC 6.3.4 on UTRA FGI bit 1 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112303 | | - | GCF Priority 3 - Addition of applicability for new test case 13.4.2.4 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112369 | | - | Addition of applicability statement for new GCF Priority 3 EMM test case 9.2.2.1.4 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112394 | | - | Addition of applicability for new HeNB test case on intra-frequency SI acquisition | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112489 | | - | Addition of band 24 in Table A.4.3.1-1 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112512 | | - | Applicability for new TC for IMS Emergency 11.2.7 | 9.4.0 | 9.5.0 |
| 2011-06 2011-06 | RAN#52 RAN#52 | R5-112530 R5-112568 | | - | GCF Priority 4 -: Applicability for new LTE CSFB TC 13.1.10 GCF Priority 3 - Correction to applicability condition for TC 9.2.3.1.25 | 9.4.0 9.4.0 | 9.5.0 9.5.0 |
| 2011-06 | RAN#52 | R5-112596 | 0205 | - | Addition of applicability for new test case 6.4.6 and 6.4.7 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112613 | | - | Add applicability for GCF Priority 2 test case 9.2.3.3.6 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112633 | | - | GCF Priority 3 - Addition of Applicability for new test case 8.4.3.1 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112635 | | - | GCF Priority 3 - Update of Applicability table for Multi-layer Procedures Procedure test cases 13.4.2.2 | 9.4.0 | 9.5.0 |
| 2011-06 2011-06 | RAN#52 RAN#52 | R5-112637 R5-112655 | | - | Addition applicability condition for test Case 13.3.2.1 in 36.523-2 Add applicability for test case 11.2.2 | 9.4.0 9.4.0 | 9.5.0 9.5.0 |
| 2011-06 | RAN#52 RAN#52 | R5-112656 | | - | Add applicability for test case 11.2.2 Addition of applicability for new test case on Attach for emergency bearer services / Rejected / No suitable cells in tracking area / Emergency call using the CS domain | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112662 | 0212 | - | GCF priority 4 -Addition of applicability for new Multi-layer Procedures test case 13.1.11 and 13.1.12 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112663 | 0213 | - | GCF priority 4 - Addition of applicability for new Multi-layer Procedures test case 13.1.13 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112664 | | - | for normal tracking area update / Correct handling of CSG list | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112669 | | - | Add applicability for new test case 13.4.3.1 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112670 | | - | Correction to the contents of Release information of Tables of A.4.3.1-1, A.4.3.1-2 and A.4.3.2-1 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112681 | 0217 | - | Addition of applicability statement for E-UTRAN test cases 6.4.3, 6.4.4 and 6.4.5 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112684 | | - | Addition of applicability for new test case on manual CSG ID selection on Hybrid non-member cell. | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 | R5-112696 | | - | Addition of applicability for new MBMS test cases 17.1.1, 17.1.2 and 17.1.3 | 9.4.0 | 9.5.0 |
| 2011-06 | RAN#52 RAN#52 | R5-112704 | | - | GCF priority 4 - Addition of applicability for new EMM test case 9.2.3.3.3 Addition of applicability for new test case 9.2.2.1.10 | 9.4.0 | 9.5.0 9.5.0 |
| 2011-06 | GERAN# | R5-112758 GP-110833 | | - | CR 36.523-2-0222 Addition of new Test cases 8.4.4.2 and 8.4.4.3 | 9.4.0 9.4.0 | 9.5.0 9.5.0 |
| 2011-06 | 50 GERAN# | GP-110833 | | - | CR 36.523-2-0222 Addition of new Test cases 8.4.4.2 and 8.4.4.3 CR 36.523-2-0186 Applicability correction for Geran to Eutran test | 9.4.0 | 9.5.0 |
| | 50 | 5, 110040 | 5100 | <u> </u> | cases | 0.7.0 | 0.0.0 |

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|---------|--------------|-----------|------|-------------|---|-------|-------|
| 2011-06 | GERAN# 50 | GP-110841 | 0188 | 1 | CR 36.523-2-0188 Removal of LTE TC 6.2.3.2 applicability due to duplication | 9.4.0 | 9.5.0 |
| 2011-09 | RAN#53 | R5-113088 | 0241 | - | GCF Priority 4 - Update of applicability statement for Rel-8 test cases on handover between FDD and TDD for dual mode UE | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113156 | 0223 | - | Addition of band 25 in Table A.4.3.1-1 | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113159 | 0224 | - | Addition of applicability statement for new Rel-9 test case for e1xCSFB / MT call | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113160 | 0225 | - | Addition of applicability statement for new Rel-9 test case for e1xCSFB / MO call | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113349 | | - | Applicability of new E-UTRA MAC test case for padding BSR | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113398 | - | - | Add applicability for SRVCC test cases | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113612 | | - | Update IMS emergency applicability | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113631 | | - | GCF Priority 2: Correction to condition C97 | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113669 | | - | Update Table A.4.3.1-2 for Band 23 FDD LTE in 36.523-2 | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113686 | 0231 | - | GCF Priority 2 - Correction to the applicability statement of TC 9.2.3.1.2 | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113724 | 0232 | - | GCF Priority 4 - Update TS36.523-2 for new test case 8.4.1.5 | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113731 | 0233 | - | Correction the title for test case 8.5.2.1 of 36.523-2 | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113732 | 0234 | - | Correction to the duplicated condition of 36.523-2 | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113733 | 0235 | - | Indication of Number of TC Executions for TCs that contain multi- RAT branches | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113760 | | - | GCF Priority X - New TC 8.3.4.2.3.4 Applicability | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113768 | 0237 | - | Addition of a applicability statements for new eMBMS tests in clause 17.2 | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113785 | 0238 | - | Applicability for new TC 8.2.1.8 | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113814 | 0239 | - | Correction of EMM TC applicability | 9.5.0 | 9.6.0 |
| 2011-09 | RAN#53 | R5-113327 | 0240 | - | Addition applicability condition for test Case 13.3.2.2 in 36.523-2 | 9.5.0 | 9.6.0 |
| 2011-12 | RAN#54 | R5-115168 | 0244 | - | GCF Priority 4 - Correction to test case selection expression for test case 9.2.3.1.20 | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115171 | 0245 | - | Correction to the applicability condition of test case 8.4.7.6 in TS 36.523-2 | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115178 | 0246 | - | GCF Priority 4 - Removal of applicability for test case 14.3 | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115190 | 0247 | - | Adding band 22 (3500MHz FDD) to 36.523-2 | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115238 | 0248 | - | Correction to the applicability statements - PSHO from E to G is mapped incorrectly and other corrections to Multi-layer procedures | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115273 | 0249 | - | Addition of applicability statement for new Rel-9 test case 6.2.3.7a | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115274 | | - | Addition of applicability statement for new Rel-9 test case 6.2.3.8a | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115276 | | - | Addition of applicability statement for new Rel-9 test case 6.2.3.9a | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115277 | | - | | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | | 0253 | - | Editorial correction to conditionals C32 and C33 | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115302 | | - | Corrections to the applicability of CSG test cases | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115312 | | - | GCF Priority x - New TC 6.1.2.2a_3a_17_18 Applicability | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115317 | | - | Update of Indication of Number of TC Executions for TCs that contain multi-RAT branches | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115356 | 0257 | - | GCF Priority 3 - Correction to applicability EMM test case 9.2.1.1.25 | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115362 | | - | GCF Priority 2 - Correction to applicability EMM test case 9.2.3.3.5 | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115364 | | - | Correction of PICS pc_HO_from_UTRA | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115372 | 0260 | - | Update to conditional C55 for GCF P2 - P4 test cases 10.8.1 - 10.8.7 | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115551 | 0261 | - | GCF priority 4 - Corrections to applicability of EMM test case 9.2.3.3.5a | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115577 | 0262 | - | Correction to the applicability of the MIMO RB test cases 12.3.x | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115632 | | - | Update the title of test case 11.2.4 | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115643 | | - | Removal of TC 11.2.9 Applicability | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115714 | | - | Addition of applicability statement for 1xCSFB emergency call | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115715 | | - | Clarification of Release-dependency in EUTRA test applicability | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115716 | 0267 | - | 2 | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115717 | | - | Applicability of new test case for Dedicated RLF timer | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115718 | | - | Applicability of new test case for High speed flag | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115719 | | - | GCF Priority X: Addition of Applicability for new test cases 8.3.1.9a and 8.3.1.11a | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115894 | | - | Addition of applicability for new test case 6.2.3.1a | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115799 | | - | GCF priority x - Addition of applicability of new test case 6.1.1.1a | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115895 | | - | GCF Priority 2 - Update of applicability of EMM test case 9.2.2.1.7 | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115772 | | - | GCF Priority 3 - Update of EMM test cases 9.2.3.1.26 | 9.6.0 | 9.7.0 |
| 2011-12 | RAN#54 | R5-115773 | 0275 | - _ | GCF Priority 3 - Correction to applicability EMM test cases 9.2.1.2.4 and 9.2.3.2.4 | 9.6.0 | 9.7.0 |
| 2012-03 | RAN#55 | R5-120121 | 0276 | - | Addition of applicability for test case 11.2.5 | 9.7.0 | 9.8.0 |

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| 2012-03 | RAN#55 | R5-120164 | 0277 | - | Addition of applicability statement for E-UTRAN test cases 6.2.3.3a and 6.2.3.5a | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120201 | 0278 | - | Addition of applicability for new MBMS test case | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120205 | | - | Addition of applicability statement for new Rel-9 test case 13.4.4.1 | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120206 | | - | Addition of applicability statement for new Rel-9 test case 13.4.4.2 | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120260 | 0281 | - | Addition applicability for new 13.4.4.3 LTE-CDMA2000-HRPD interworking test case | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120416 | | - | Update title for test case 11.2.2 | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120452 | | - | Applicability of new test case 8.3.1.3a | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120453 | | - | Applicability of new test case 8.3.2.3a | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120455 | | - | Correction to applicability for test cases 9.2.3.3.2, 9.2.3.3.3 and 9.2.3.3.5 | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120499 | 0287 | - | GCF priority U1 - Add speech support for CSFB test cases in Multilayer section | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120501 | 0288 | - | GCF priority U1 - Correction to test case selection expression for IRAT EMM test cases | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120586 | 0289 | - | Addition of applicability statement for new Rel-9 test cases 18.1.1 | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120702 | 0301 | - | GCF Priority x : Update of titles of test cases 8.3.1.9a and 8.3.1.11a | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120704 | 0290 | - | Addition of applicability statement for new test case 11.2.10 | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120716 | | - | Applicability addition for new inter-mode test cases | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120746 | 0294 | - | Addition applicability for new 13.4.4.4 LTE-CDMA2000-HRPD interworking test case | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120747 | 0295 | - | Applicability of new test case 6.2.3.x | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120748 | | - | Update of FGI bit table | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120755 | 0297 | - | Addition of new PICS for Support of automatic re-activation of the EPS bearer(s) after the TAU reject with cause #40 | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120759 | 0298 | - | GCF Priority 2 : Introduction of applicability statements for new equivalent 6.1.1.x and 6.1.2.x test cases to cater for bands with single frequency operation | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120762 | 0299 | - | GCF priority 4: Cleanup and aligning applicability of SRVCC | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120763 | 0300 | - | GCF Priority 3 - Correction to applicability for EMM test cases 9.2.1.2.4 and 9.2.3.2.4 | 9.7.0 | 9.8.0 |
| 2012-03 | RAN#55 | R5-120348 | 0282 | - | Addition of applicability statement for new Rel-10 test case 7.1.3.11 CA / Correct HARQ process handling / DCCH and DTCH / Pcell and Scell | 9.8.0 | 10.0.0 |
| 2012-03 | RAN#55 | R5-120735 | | - | Applicability for new CA test cases | 9.8.0 | 10.0.0 |
| 2012-03 2012-06 | RAN#55 RAN#56 | R5-120745 R5-121200 | | - | Applicability of new MDT test cases Addition of applicability statement for new Rel-9 SRVCC test case | 9.8.0 10.0.0 | 10.0.0 |
| | | | | - | 13.4.3.6 | | 10.1.0 |
| 2012-06 | RAN#56 | R5-121204 | | - | GCF priority x - Update applicability of test case 6.1.1.1a | 10.0.0 | |
| 2012-06 | RAN#56 | R5-121213 R5-121215 | | - | Applicability of new MDT test cases 8.6.2.5 | 10.0.0 | |
| 2012-06 2012-06 | RAN#56 RAN#56 | R5-121215 R5-121217 | | - | Applicability of new MDT test cases 8.6.2.6 Applicability of new MDT test cases 8.6.2.7 | 10.0.0 | |
| 2012-00 | RAN#56 | R5-121217 | | - | Applicability of new MDT test cases 8.6.2.8 | 10.0.0 | |
| 2012-06 | RAN#56 | R5-121224 | | - | Adding operating band 26 to TS 36.523-2 | 10.0.0 | |
| 2012-06 | RAN#56 | R5-121302 | | - | Correction to applicability for test case 9.2.3.3.5a | 10.0.0 | |
| 2012-06 | RAN#56 | R5-121399 | | - | Addition of applicability statement for Logged MDT test case 8.6.3.1 | 10.0.0 | 10.1.0 |
| 2012-06 | RAN#56 | R5-121401 | 0312 | - | Correction of PICS for RSRQ Cell Reselection Applicability | 10.0.0 | 10.1.0 |
| 2012-06 | RAN#56 | R5-121421 | | - | GCF Priority 2 and 3 - Removal of 'Active' flag test cases from 36.523-2 | | 10.1.0 |
| 2012-06 | RAN#56 | R5-121427 | 0314 | - | Editorial clean up of 36.523-2 | 10.0.0 | 10.1.0 |
| 2012-06 | RAN#56 | R5-121429 | | - | Update of Number of TC Executions for multi-frequency TCs | 10.0.0 | |
| 2012-06 | RAN#56 | R5-121512 | | - | Introduction of applicability of new PWS test case 18.1.4 | 10.0.0 | |
| 2012-06 | RAN#56 | R5-121542 | 0317 | - | Addition of new PICS item | 10.0.0 | |
| 2012-06 | RAN#56 | R5-121638 | | - | Add applicability for TC 11.2.11 | 10.0.0 | |
| 2012-06 2012-06 | RAN#56 RAN#56 | R5-121670 R5-121741 | | - | GCF Priority 3 - Update of applicability for EMM test case 9.2.2.1.7 GCF Priority 2: Addition of applicability for equivalent EMM test | 10.0.0 | 10.1.0 10.1.0 |
| 2012-00 | RAN#56 | R5-121751 | | <u> </u> | cases for single frequency operation GCF priority 3 - Correction to applicability of idle mode test case | 10.0.0 | |
| | | | | - | 6.2.2.5 | | |
| 2012-06 | RAN#56 | R5-121752 | | - | GCF Priority 3 - Correction to applicability of EMM test case 9.2.3.2.17 | 10.0.0 | 10.1.0 |
| 2012-06 | RAN#56 | R5-121797 | 0323 | - | GCF Priority X - Addition of applicability for new E-UTRA inter-band test cases | 10.0.0 | 10.1.0 |
| 2012-06 | RAN#56 | R5-121798 | 0324 | - | Correction to applicability for test cases 9.2.3.3.2, 9.2.3.3.3 and 9.2.3.3.5 | 10.0.0 | 10.1.0 |
| 2012-06 | RAN#56 | R5-121799 | 0325 | - | Updates to ICS for inter-mode TCs | 10.0.0 | 10.1.0 |
| 2012-06 | RAN#56 | R5-121800 | | - | Correction to applicability of EMM test cases 9.2.3.1.9, 9.2.1.2.1b, | 10.0.0 | |

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| | | | | - | 9.2.2.1.4 and 9.2.3.2.1b | | |
| 2012-06 | RAN#56 | R5-121801 | 0327 | - | Addition of missing applicability conditions in 36.523-2 for E-UTRA Inter-System mobility Test Cases from 36.523-1. | 10.0.0 | 10.1.0 |
| 2012-06 | RAN#56 | R5-121802 | | - | Correction of TC release | 10.0.0 | 10.1.0 |
| 2012-06 | RAN#56 | R5-121827 | | - | Applicability of new UTRAN ANR/E-UTRAN test case | 10.0.0 | |
| 2012-06 | RAN#56 | R5-121845 | | - | Applicability of new test case for RLF reporting | 10.0.0 | |
| 2012-06 | RAN#56 | R5-121864 | | - | Correction of CA TC 8.2.4.17 Applicability, and removal of TC 8.2.4.16 | 10.0.0 | |
| 2012-06 | RAN#56 | R5-121867 | | - | Applicability of new CA test case for intra-frequency handover | 10.0.0 | 10.1.0 |
| 2012-06 | RAN#56 RAN#56 | R5-121868 R5-122117 | | - | Introduction of applicability of new Rel10 CA test case Addition and Update of applicability statement for Rel-9 e1xCSFB | 10.0.0 | 10.1.0 |
| | | | | - | test cases | | |
| 2012-06 | RAN#56 | R5-122118 R5-122123 | | - | Clarification of PICS conditions | 10.0.0 | 10.1.0 |
| 2012-06 2012-06 | RAN#56 RAN#56 | R5-122123 | | - | Applicability for new MDT TCs Addition of applicability statement for new PWS Rel-9 test case | 10.0.0 | |
| 2012-00 | | 10-122120 | 0337 | - | 18.1.7 | 10.0.0 | 10.1.0 |
| 2012-06 | RAN#56 | R5-122137 | 0338 | - | Addition of applicability statement for E-UTRAN test cases 13.3.1.3 | 10.0.0 | 10.1.0 |
| 2012-06 | RAN#56 | - | - | - | Corrections to table sizes | 10.1.0 | |
| 2012-09 | GERAN# 56 | GP-121044 | 0339 | 1 | CR 36.523-2-0339 GCF priority g1 - Correction to applicability of Idle mode test cases 6.2.3.19, 6.2.3.20 | 10.1.1 | 10.2.0 |
| 2012-09 | GERAN# 56 | GP-121045 | 0340 | 1 | CR 36.523-2-0340 Correction to applicability of test case 6.2.3.29 | 10.1.1 | 10.2.0 |
| 2012-09 | RAN#57 | R5-123109 | 0341 | - | GCF Priority X - Addition applicability of test case 8.4.7.11 | 10.1.1 | 10.2.0 |
| 2012-09 | RAN#57 | R5-123159 | | - | Correct applicability for TC 8.2.4.12 | 10.1.1 | 10.2.0 |
| 2012-09 | RAN#57 | R5-123219 | 0343 | - | GCF Priority 3 - Correction to applicability of EMM test case 9.2.3.2.17 | 10.1.1 | 10.2.0 |
| 2012-09 | RAN#57 | R5-123226 | 0344 | - | Update Applicability Table for all PWS Test Cases | 10.1.1 | 10.2.0 |
| 2012-09 | RAN#57 | R5-123229 | | - | Correction to applicability of CA TC 7.1.3.11 | 10.1.1 | |
| 2012-09 | RAN#57 | R5-123243 | | - | GCF Priority X - Correction to applicability of Rel9 EUTRA Interband test cases | 10.1.1 | 10.2.0 |
| 2012-09 | RAN#57 | R5-123260 | | - | Clarify support for ROHC | 10.1.1 | |
| 2012-09 | RAN#57 | R5-123320 | | - | Correction to PICS conditions | 10.1.1 | |
| 2012-09 | RAN#57 | R5-123353 | | - | Clarification of EMM TC applicability | 10.1.1 | |
| 2012-09 | RAN#57 | R5-123419 | | - | Addition of applicability statement for E-UTRAN test case 13.4.1.5 Introduction of new PICS for PWS | 10.1.1 | |
| 2012-09 | RAN#57 RAN#57 | R5-123425 R5-123484 | | - | Applicability for new CA test cases | 10.1.1 | |
| 2012-09 | RAN#57 | | 0357 | - | GCF priority 4 - Correction to EMM test case 9.3.1.18 test case applicability | | 10.2.0 |
| 2012-09 | RAN#57 | R5-123593 | 0358 | - | Addition of Applicability for new InterRAT cell reselection Test Case | 10 1 1 | 10.2.0 |
| 2012-09 | RAN#57 | R5-123628 | | - | GCF Priority 3 - Correction to applicability statement of EMM test | 10.1.1 | 10.2.0 |
| 2012-09 | RAN#57 | R5-123639 | 0360 | - | case 9.2.2.1.3 GCF Priority 2: Introduction of missing applicability for test case | 10.1.1 | 10.2.0 |
| 2012-09 | RAN#57 | R5-123679 | | - | 9.2.1.1.7a GCF Priority X: Addition of Applicability for new Inter band test case | | |
| | RAN#57 | R5-123707 | | | 6.1.2.15b | | |
| 2012-09 2012-09 | RAN#57 RAN#57 | R5-123707 | | - | Corrections to title of 8.6.5.3 and applicability of test case 8.6.5.1 Addition of applicability statement for new eICIC test cases | 10.1.1 10.1.1 | |
| 2012-09 | RAN#57 | R5-123750 | | - | Upgrade LTE-UTRA TDD TCs to Rel-9 | 10.1.1 | |
| 2012-09 | RAN#57 | R5-123764 | | - | Addition of applicability statement for new CA test case 8.4.2.7 | 10.1.1 | |
| 2012-09 | RAN#57 | R5-123765 | | - | Correction of CA TCs Applicability | 10.1.1 | |
| 2012-09 | RAN#57 | R5-123368 | | - | Addition of applicability statement for new Test Case 7.3.4.3: Integrity protection / Correct functionality of EPS AS integrity algorithms / ZUC | 10.2.0 | 11.0.0 |
| 2012-09 | RAN#57 | R5-123376 | 0351 | - | Addition of applicability statement for new ZUC test case 7.3.3.6 | 10.2.0 | 11.0.0 |
| 2012-09 | RAN#57 | R5-123441 | | 1- | Addition of applicability statement for new ZUC Rel-11 test cases | 10.2.0 | |
| 2012-12 | RAN#58 | R5-125075 | | - | GCF P3: Update of applicability of TC 9.2.1.1.19 | | 11.1.0 |
| 2012-12 | RAN#58 | R5-125117 | | - | Addition of new PICS for Support of automatic ATTACH in E- UTRAN | 11.0.0 | |
| 2012-12 | RAN#58 | R5-125128 | 0369 | - | Correction of LTE-UTRA FDD TCs Release | 11.0.0 | 11.1.0 |
| 2012-12 | RAN#58 | R5-125131 | | - | Split of CA TC 7.1.3.11 Applicability | 11.0.0 | |
| 2012-12 | RAN#58 | R5-125208 | | - | Update of EMM TC applicability | 11.0.0 | |
| 2012-12 | RAN#58 | R5-125270 | | - | GCF Priority 3 - Correction to applicability for test case 6.2.2.5 | 11.0.0 | |
| 2012-12 | RAN#58 | R5-125277 | | <u> -</u> | Additional information applicability to TDD devices | 11.0.0 | |
| 2012-12 | RAN#58 | R5-125282 | | | Editorial updates to 36.523-2 | 11.0.0 | |
| 2012-12 | RAN#58 | R5-125286 | | <u> -</u> | Correction to applicability condition C134 for Carrier Aggregation | 11.0.0 | |
| 2012-12 2012-12 | RAN#58 RAN#58 | R5-125348 R5-125406 | | - | Adding bands 28 and 44 to TS36.523-2 Addition of applicability of new E-UTRAN MDT test cases | 11.0.0 11.0.0 | |
| 2012-12 | RAN#58 | R5-125406 R5-125524 | | <u> -</u> | Applicability of new MDT test cases | 11.0.0 | |
| 2012-12 | RAN#58 | R5-125637 | | - | GCF Priority X - Correction to applicability of Rel9 EUTRA | | 11.1.0 |
| | | | | | Interband test cases | - | - |

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| 2012-12 | RAN#58 | R5-125727 | 0382 | V | GCF Priority 4: Corrections to user PLMN reselection test cases | 11.0.0 | 11.1.0 |
| 2012-12 | RAN#58 | R5-125745 | | - | Introduction of Band 27 to TS 36.523-2 | 11.0.0 | |
| 2012-12 | RAN#58 | R5-125760 | | - | GCF Priority x - Update to Squal based EUTRA Idle mode test cases | 11.0.0 | 11.1.0 |
| 2012-12 | RAN#58 | R5-125777 | 0385 | - | GCF Priority X - Updates Applicability for renumbering 8.4.7.11 to 8.4.7.10 | 11.0.0 | 11.1.0 |
| 2012-12 | RAN#58 | R5-125784 | 0386 | - | Addition of applicability statement for new H(e)NB test cases | 11.0.0 | 11.1.0 |
| 2012-12 | RAN#58 | R5-125791 | 0387 | - | Applicability for new UL MIMO test case 7.1.4.22 | 11.0.0 | 11.1.0 |
| 2012-12 | RAN#58 | R5-126002 | | - | Applicability of new test cases for aSRVCC | | 11.1.0 |
| 2012-12 | RAN#58 | R5-126009 | | - | Applicability for split CA test cases 7.1.4.19 and 7.1.4.20 | 11.0.0 | |
| 2012-12 | RAN#58 | R5-126010 | | - | Aligning LTE CA ICS proforma tables for test case applicability conditions with UE Capability signalling | 11.0.0 | 11.1.0 |
| 2012-12 | RAN#58 | R5-126011 | 0391 | - | Split of CA TC 7.1.9.1 | 11.0.0 | 11.1.0 |
| 2012-12 | RAN#58 | R5-126031 | 0392 | - | Applicability of new CA test case 7.1.4.18 CA / Correct handling of MAC control information / Buffer Status / UL data arrive in the UE Tx buffer / Extended buffer size | 11.0.0 | 11.1.0 |
| 2012-12 | RAN#58 | R5-126072 | 0393 | - | Addition of applicability statement for new Rel-10 Carrier Aggregation test cases | 11.0.0 | 11.1.0 |
| 2013-03 | RAN#59 | R5-130089 | | - | Addition of reference to TS 34.229-2 | 11.1.0 | |
| 2013-03 | RAN#59 | R5-130090 | | - | Corrections to inter-RAT(UTRA to EUTRA) TCs applicability | 11.1.0 | |
| 2013-03 | RAN#59 | R5-130181 | 0395 | - | Adding applicability for new aSRVCC TCs 13_4_3_15 and 13_4_3_17 | | 11.2.0 |
| 2013-03 | RAN#59 | R5-130193 | | - | Addition of new PICS for supporting Update UE Location Information | 11.1.0 | 11.2.0 |
| 2013-03 | RAN#59 | R5-130339 | | - | Applicability of new MDT test cases | 11.1.0 | 11.2.0 |
| 2013-03 | RAN#59 | R5-130359 | | - | Adding applicability for new LTE Rel-9 TC for UE rejection of NAS security mode command with EIA0 | 11.1.0 | 11.2.0 |
| 2013-03 | RAN#59 | R5-130360 | | - | Update of single-multiple frequency tests execution | | 11.2.0 |
| 2013-03 | RAN#59 | R5-130368 | | - | Correction to the EPS capability PICS | 11.1.0 | |
| 2013-03 | RAN#59 | R5-130371 | 0401 | - | Correction to the applicability statement of GCF U1 EMM test cases 9.2.1.2.1b and 9.2.3.2.1b | _ | 11.2.0 |
| 2013-03 | RAN#59 | R5-130446 | | - | Correction to CA physical layer implementation capabilities | | 11.2.0 |
| 2013-03 | RAN#59 | R5-130447 | | - | Addition of CA physical layer implementation capabilities for CA_4- 5 and CA_4-13 | | 11.2.0 |
| 2013-03 | RAN#59 | R5-130473 | | - | Updating spec titles in References | | 11.2.0 |
| 2013-03 | RAN#59 | R5-130667 | | - | GCF Priority X-Correction to applicability of TC 6.2.3.33 | 11.1.0 | |
| 2013-03 | RAN#59 | R5-130668 | | - | Addition of Applicability for new SMS test cases 11.1.5 and 11.1.6 | - | 11.2.0 |
| 2013-03 2013-03 | RAN#59 RAN#59 | R5-130724 R5-130731 | | - | Addition of applicability of new NIMTC test cases Addition of applicability statement for new MDT test case | 11.1.0 11.1.0 | |
| 2013-03 | RAN#59 | R5-130736 | | E | Applicability of new test cases for event A5 measurement report | | 11.2.0 |
| 2013-03 | RAN#59 | R5-130737 | | - | Correction to applicability of Rel9 EUTRA PWS test cases | - | 11.2.0 |
| 2013-03 | RAN#59 | R5-130744 | | - | Correction of applicability for EUTRA-1xRTT test case 8.4.7.3 and 8.4.7.4 | 11.1.0 | |
| 2013-03 | RAN#59 | R5-130745 | 0411 | - | GCF Priority X-Correction to applicability of TC 8.1.3.11 and 8.1.3.12 | 11.1.0 | 11.2.0 |
| 2013-03 | RAN#59 | R5-130749 | | - | Add capabilities for CSFB and IMS devices | 11.1.0 | 11.2.0 |
| 2013-03 | RAN#59 | R5-130766 | 0413 | - | Addition of applicability for new Inter-Rat test case for Event B1 measurement | 11.1.0 | |
| 2013-03 | RAN#59 | - | - | - | history box error fix | | 11.2.1 |
| 2013-03 | RAN#59 | - | - | - | Substitution in C164 of 'yyy' with '72' depending on the Table A.4.4- 1: Additional information of R5-130668. | 11.2.1 | 11.2.2 |
| 2013-06 | GERAN# 58 | GP-130372 | | - | Removal of TC 6.2.3.22 from applicability table | | 11.3.0 |
| 2013-06 | RAN#60 | R5-131144 | | - | ICS Correction to Idle Mode TC6.3.10 | 11.2.2 | 11.3.0 |
| 2013-06 | RAN#60 | R5-131219 | | - | GCF Priority 4 - Correction to applicability criteria for EUTRA Test case 6.2.1.4 | | 11.3.0 |
| 2013-06 | RAN#60 | R5-131246 | | - | CA configurations for signalling test | | 11.3.0 |
| 2013-06 | RAN#60 | R5-131321 | | - | Addition of new PICS pc_KeepEpsBearerParametersAfterNormalDetach | 11.2.2 | |
| 2013-06 | RAN#60 | R5-131388 | | - | Applicability for new TC 8.3.4.5 Inter-frequency E-UTRAN FDD - FDD / CSG Proximity Indication | | 11.3.0 |
| 2013-06 | RAN#60 | | 0421 | - | Addition of CA physical layer implementation capabilities for CA_1- 19 and CA_1-21 | | 11.3.0 |
| 2013-06 | RAN#60 | R5-131455 | | - | Update pics for CSFB and IMS devices | 11.2.2 | |
| 2013-06 | RAN#60 | R5-131493 | | - | Update pics pc_CS | 11.2.2 | |
| 2013-06 | RAN#60 | R5-131495 | | - | GCF Priority X - Correction to applicability of RSRQ TC 6.2.3.1a | 11.2.2 | |
| 2013-06 | RAN#60 | R5-131497 | | - | GCF Priority X - Correction to applicability of test case 13.1.2a | 11.2.2 | |
| 2013-06 | RAN#60 | R5-131499 | | - | GCF Priority X - Correction to applicability of test case 8.1.3.6a Addition of Inter-Band CA configurations for CA_2-17 and CA_4-17 | 11.2.2 | |
| 2013-06 | RAN#60 | R5-131690 | 0427 | I- | Addition of Inter-band CA configurations for CA_2-17 and CA_4-17 | 11.2.2 | 11.3.0 |

| | | TSG Doc. | CR | R e | Subject/Comment | Old | New |
|--------------------|----------------------------|-------------------------------------|-------|----------|--|------------------|--------|
| 0040.00 | DANIJOO | D5 404744 | 0.400 | v | Addition of an antion band 00 to TO 00 500 0 | 44.0.0 | 44.0.0 |
| | | R5-131714 | | - | Addition of operating band 29 to TS 36.523-2 | | 11.3.0 |
| | RAN#60 | R5-131715 | | - | Addition of PICS items for Rel-10 UE category 6-8 | | 11.3.0 |
| | RAN#60 | R5-131862 | | - | Applicability of new test cases for setting the FGI 28. | 11.2.2 | |
| | RAN#60 | R5-131863 | | - | GCF Priority 2: Changing the TC 9.1.4.2 title | 11.2.2 | |
| | RAN#60 | R5-131864 | | - | Splitting TC 11.2.8 in two TCs one for UTRA/GERAN and one for 1xRTT - Applicability | 11.2.2 | |
| 2013-06 | RAN#60 | R5-131867 | 0433 | - | Correction of applicable minimum releases for UTRA and GERAN in Inter-RAT test cases | 11.2.2 | 11.3.0 |
| | RAN#60 | R5-131869 | | - | Update of Applicability of test case 8.3.3.5 | 11.2.2 | |
| | RAN#60 | R5-131893 | | - | Adding applicability for new NIMTC test cases | 11.2.2 | |
| 2013-06 | RAN#60 | R5-131896 | 0436 | - | Applicability for new test cases of TDD Special subframe configuration | 11.2.2 | 11.3.0 |
| 2013-06 | RAN#60 | R5-132016 | 0437 | - | Update of FGI tables in TS 36.523-2 | 11.2.2 | 11.3.0 |
| 2013-06 | RAN#60 | R5-132023 | 0438 | - | Applicability of New Carrier Aggregation test case | 11.2.2 | 11.3.0 |
| 2013-06 | RAN#60 | R5-132026 | 0439 | - | Update of applicability for NIMTC test cases | 11.2.2 | 11.3.0 |
| 2013-06 | RAN#60 | R5-132040 | 0440 | - | Modification of pc_SMS_SGs PICS dependencies | 11.2.2 | 11.3.0 |
| 2013-06 | RAN#60 | R5-132055 | 0441 | - | Applicability of new test cases for eMDT | 11.2.2 | 11.3.0 |
| 2013-09 | RAN#61 | R5-133111 | 0443 | - | Addition of CA physical layer implementation capabilities for CA_3- 8 | 11.3.0 | 11.4.0 |
| 2013-09 | RAN#61 | R5-133229 | 0445 | - | Update of Applicability Conditions for CA test cases | 11.3.0 | 11.4.0 |
| 2013-09 | RAN#61 | R5-133294 | 0446 | - | Addition of Inter-Band CA configurations for CA_1-18 and CA_11- 18 | 11.3.0 | 11.4.0 |
| 2013-09 | RAN#61 | R5-133307 | 0447 | - | Addition of Band 31 to 36.523-2 | 11.3.0 | 11.4.0 |
| | RAN#61 | R5-133353 | 0448 | - | Addition of applicability for new eICIC test case 8.3.1.21 | 11.3.0 | |
| | RAN#61 | R5-133413 | | - | Addition of applicability of new test cases for eMDT | | 11.4.0 |
| 2013-09 | RAN#61 | R5-133450 | 0450 | - | Addition and modification of CA Band for supported CA configurations for signalling test in 36.523-2 | 11.3.0 | 11.4.0 |
| 2013-09 | RAN#61 | R5-133458 | 0451 | - | Add applicability for E-UTRA VoLTE test cases | 11.3.0 | 11.4.0 |
| | RAN#61 | R5-133607 | | - | Update Applicability for ZUC test cases | 11.3.0 | |
| | RAN#61 | R5-133608 | | - | Execution of TCs when UE supports a single E-UTRA band | 11.3.0 | |
| | RAN#61 | R5-133609 | | - | Updating specific condition for setting the FGI 28. | 11.3.0 | |
| | RAN#61 | R5-133625 | | - | Correction of CA test case entries in applicability table | | 11.4.0 |
| | RAN#61 | | 0456 | - | Addition of UE capability information Bandwidth Combination Set for Carrier Aggregation in ICS proforma tables | | 11.4.0 |
| 2013-09 | RAN#61 | R5-133627 | 0457 | - | | 11.3.0 | 11.4.0 |
| 2013-09 | RAN#61 | R5-133649 | 0458 | - | Update of title of test case 8.3.1.20 | 11.3.0 | 11.4.0 |
| | RAN#61 | R5-133678 | | - | Applicability for new power preference indication test cases | 11.3.0 | |
| | RAN#61 | | 0460 | - | Applicability for new ePDCCH related test cases | 11.3.0 | 11.4.0 |
| | RAN#61 | R5-133697 | 0461 | - | Define new test applicability for MFBI signalling test cases | | 11.4.0 |
| 2013-09 | RAN#61 | R5-133698 | 0462 | - | Execution of TCs when UE supports multiple modes of configuration | 11.3.0 | 11.4.0 |
| 2013-09 | RAN#61 | R5-133701 | 0463 | - | Update of Applicability for LTE TC 6.2.1.1 | 11.3.0 | 11.4.0 |
| | RAN#61 | R5-133702 | | - | Applicability of new eMBMS service continuity test cases | 11.3.0 | |
| | RAN#61 | R5-133731 | | - | Applicability of new eICIC test case 8.3.1.27 | 11.3.0 | |
| | RAN#62 | R5-134090 | | - | Editorial correction to Test Case Applicability Table 4-1 | 11.4.0 | 11.5.0 |
| | RAN#62 | R5-134112 | | - | Applicability of new test case 8.1.3.12b | 11.4.0 | |
| 2013-12 | RAN#62 | R5-134245 | 0467 | - | Applicability of new eMBMS SC test cases | 11.4.0 | 11.5.0 |
| | RAN#62 | R5-134263 | 0468 | - | GCF Priority 2 - Removal of applicability for EMM test case 9.2.3.3.6 | 11.4.0 | 11.5.0 |
| 2013-12 | RAN#62 | R5-134265 | 0469 | - | Editorial correction of pc_CS reference | 11.4.0 | 11.5.0 |
| | RAN#62 | R5-134392 | | - | Correction of editorial issues in ICS proforma specification | 11.4.0 | |
| | RAN#62 | R5-134567 | | - | Correction to the applicability of CSG test cases | 11.4.0 | |
| | RAN#62 | R5-134571 | | - | Correction to the item number of Table A.4.5-1c, 4.5-1d, 4.5-1e and 4.5.3 | | |
| 2013-12 | RAN#62 | R5-134671 | 0474 | - | Addition of applicability for test case 9.2.1.1.7b | 11.4.0 | |
| 2013-12 | RAN#62 | R5-134672 | 0475 | - | Addition of applicability of new SIMTC test cases | 11.4.0 | 11.5.0 |
| 2013-12 | RAN#62 | R5-134685 | 0476 | - | Addition of CA band combinations CA_2A_29A, CA_4A_29A and CA_5A_17A | 11.4.0 | 11.5.0 |
| 2013-12 | RAN#62 | R5-134725 | 0478 | - | Applicability of new aSRVCC test cases | 11.4.0 | 11.5.0 |
| | RAN#62 | R5-134772 | | - | Correction to Selection Expressions for SMS over SGs test cases | 11.4.0 | |
| | RAN#62 | R5-134773 | | - | Correction to applicability of SRVCC test cases 13.4.3.3 and 13.4.3.5 | | 11.5.0 |
| 2013-12 | RAN#62 | R5-134774 | 0481 | - | Addition of applicability for test case 9.2.3.1.20a | 11.4.0 | 11.5.0 |
| | RAN#62 | R5-134783 | | - | Split of CA Test Case 8.4.2.7 | 11.4.0 | |
| 2013-12 | | | | <u> </u> | Add applicabilities for test cases 6.2.4.1 and 6.2.4.3 | | 11.5.0 |
| | RAN#62 | R5-134952 | 0404 | | | | |
| 2013-12 | RAN#62 RAN#62 | R5-134952 R5-135006 | | - | | | |
| 2013-12 2013-12 | RAN#62 RAN#62 RAN#62 | R5-134952 R5-135006 R5-135009 | 0485 | - | Removal of TC 6.3.10, 6.3.11, 6.3.12 Applicability for Rel-11 CA enhancements related new test cases | 11.4.0 11.4.0 | 11.5.0 |

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|--------------------|------------------|------------------------|------|-------------|---|------------------|--------|
| 2013-12 | RAN#62 | R5-134686 | 0477 | - | Addition of CA band combination CA_2A_5A | 11.5.0 | 12.0.0 |
| 2013-12 | RAN#62 | R5-134792 | | - | Addition of CA physical layer implementation capabilities for CA_3- 19 and CA_19-21 | | 12.0.0 |
| 2014-03 | RAN#63 | R5-140129 | 0487 | - | Removal of technical content in 36.523-2 v11.5.0 and substitution with pointer to the next Release | 12.0.0 | 12.1.0 |
| 2014-03 | RAN#63 | R5-140570 | | - | Correct applicabilities for test cases 6.2.4.1 and 6.2.4.3 | 12.0.0 | |
| 2014-03 | RAN#63 | R5-140590 | | - | Removal of pc_ETWS_message_security PICS | 12.0.0 | - |
| 2014-03 | RAN#63 | R5-140782 | | - | Various updates to 36.523-2 | 12.0.0 | |
| 2014-03 | RAN#63 | R5-140783 | | - | Addition of the applicability of eMDT test cases | 12.0.0 | |
| 2014-03 2014-03 | RAN#63 RAN#63 | R5-140784 R5-140785 | | - | Update the applicability of EMM test case Update to applicability of inter-mode test cases | 12.0.0 12.0.0 | 12.1.0 |
| 2014-03 | RAN#63 | R5-140786 | | 1 | Correction to pc_UL_MIMO PICS | 12.0.0 | |
| 2014-03 | RAN#63 | R5-140790 | | - | Addition of Intra-band contiguous CA for signalling test | 12.0.0 | |
| 2014-03 | RAN#63 | R5-140939 | | - | Applicability of new eMBMS SC test cases | 12.0.0 | |
| 2014-03 | RAN#63 | R5-140941 | | - | Applicability of new elCIC test case | 12.0.0 | |
| 2014-03 | RAN#63 | R5-140942 | 0498 | - | Addition of applicability for test cases 6.2.4.4 and 6.2.4.6 | 12.0.0 | 12.1.0 |
| 2014-03 | RAN#63 | R5-140963 | 0499 | - | Addition and Update of applicabilities for SIMTC TCs | 12.0.0 | |
| 2014-03 | RAN#63 | R5-140966 | | - | Addition of applicability for bSRVCC test cases 13.4.3.21, 13.4.3.22 and 13.4.3.23 | | |
| 2014-03 | RAN#63 | R5-140973 | 0502 | - | Title update for Multilayer aSRVCC test cases 13.4.3.12 and 13.4.3.13 | 12.0.0 | 12.1.0 |
| 2014-03 | RAN#63 | R5-141110 | | <u> -</u> | Addition of applicability for new aSRVCC test cases | 12.0.0 | |
| 2014-03 | RAN#63 | R5-141112 | | - | Introduction of UE CA Inter-band uplink capabilities | 12.0.0 | - |
| 2014-03 | RAN#63 | R5-141138 | | - | Applicability of new test cases for bSRVCC | 12.0.0 | |
| 2014-06 2014-06 | RAN#64 RAN#64 | R5-142115 R5-142230 | | - | Addition of CA 3A-28A to 36.523-2 Editorial correction to "Supported CA configurations for Intra-band | 12.1.0 12.1.0 | |
| 2014.00 | RAN#64 | R5-142267 | 0507 | | contiguous CA" table | 12.1.0 | 12.2.0 |
| 2014-06 2014-06 | RAN#64 RAN#64 | R5-142207 | | - | Correcting applicability of 9.2.3.2.12 Updates of Table A.4.3.3.3-3 for CA_3A-26A and CA_3A-27A | 12.1.0 | |
| 2014-00 | RAN#64 | R5-142323 | 0509 | - | Correction in Applicability of tests Conditions (C81) for Multi-layer test case 13.1.4 and 13.1.5 | | 12.2.0 |
| 2014-06 | RAN#64 | R5-142346 | 0510 | - | Addition of CA band combination CA_39A-41A to Table A.4.3.3.3-3 in TS 36.523-2 | 12.1.0 | 12.2.0 |
| 2014-06 | RAN#64 | R5-142363 | 0511 | - | Editorial CR aligning titles in TS 36.523-2 with TS 36.523-1 | 12.1.0 | 12.2.0 |
| 2014-06 | RAN#64 | R5-142414 | | - | Applicability of new EPS test cases | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142430 | 0513 | - | Update to Applicability of bSRVCC Test Cases 13.4.3.18, 13.4.3.19 and 13.4.3.20 | 12.1.0 | 12.2.0 |
| 2014-06 | RAN#64 | R5-142448 | | - | Correction to Note 1 in Inter-band CA table A.4.3.3.3-3 | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142451 | | - | Correction to Applicability of MDT Test Case 8.6.2.9 and Update to pc_standaloneGNSS-Location Applicability Comment | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142484 | | - | Correct applicabilities for test cases 6.2.4.1, 6.2.4.3-4 and 6.2.4.6 | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142584 | | - | Update of FGI definitions in TS 36.523-2 | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142648 | | - | Addition of new ICS item for E-UTRAN CSG proximity test | 12.1.0 | |
| 2014-06 2014-06 | RAN#64 | R5-142673 R5-142726 | | - | Addition of CA_27B related information into A.4.3.3 in TS 36.523-2 APN configuration for IR.92 devices | 12.1.0 12.1.0 | |
| 2014-06 | RAN#64 RAN#64 | R5-142720 | | - | Correction of NITZ capabilities | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142773 | | - | Addition of CA_2A-4A and CA_5A-7A to 36.523-2 Annex A4 | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142779 | | - | Applicability of new NIMTC test case 6.1.1.7a | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142816 | | - | Update 7.1.4.18 and 7.1.4.21 to non-CA test cases | | |
| 2014-06 | RAN#64 | R5-142891 | 0525 | <u> -</u> | Correction to the Applicability of LAP and EAB test cases | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142892 | | - | Correction to the Applicability comments of some test cases | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142893 | 0527 | - | Update applicability for TDD additional special subframe configuration test cases | 12.1.0 | 12.2.0 |
| 2014-06 | RAN#64 | R5-142894 | | <u> -</u> | Update conditions in Table4-1a for CS fall back test cases | | 12.2.0 |
| 2014-06 | RAN#64 | R5-142895 | | - | Addition of New PICS | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142896 | | - | Update of test case 8.3.3.3 applicability test condition | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142898 | 0532 | - | Update of applicability of E-UTRA DL-SCH two layer transport block size selection test cases 7.1.7.1.5 and 7.1.7.1.6 for higher UE categories | 12.1.0 | 12.2.0 |
| 2014-06 | RAN#64 | R5-142899 | 0533 | - | Applicability of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase 13.4.3.12 | 12.1.0 | 12.2.0 |
| 2014-06 | RAN#64 | R5-142900 | 0534 | 1- | Addition of PICS for IPv4 and IPv6 | 12.1.0 | 12.2.0 |
| 2014-06 | RAN#64 | R5-142915 | | - | Applicability of new eMBMS test case 17.4.1a | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142916 | | - | Correction to applicability table for eMBMS test cases | 12.1.0 | 12.2.0 |
| 2014-06 | RAN#64 | R5-142927 | | | Applicability of new Intra-band non-Contiguous CA test cases | 12.1.0 | |
| 2014-06 | RAN#64 | R5-142935 | | - | Adding new test cases for further Enhancements to CELL-FACH | | 12.2.0 |
| 2014-06 | RAN#64 | | 0539 | - | Correction to Applicability of CA Test Cases 7.1.4.19.2 and 7.1.4.20.2 | | 12.2.0 |
| 2014-06 | RAN#64 | R5-142980 | 0540 | 1- | Addition of release applicable in Release column for CA enh test | 12.1.0 | 12.2.0 |

| Date | TSG # | TSG Doc. | CR | R e v | Subject/Comment | Old | New |
|--------------------|------------------|------------------------|------|-------------|--|------------------|------------------|
| | | | | • | cases | | |
| 2014-06 | RAN#64 | R5-142981 | 0541 | - | | 12.1.0 | 12.2.0 |
| 2014-06 | RAN#64 | R5-142986 | 0542 | - | Update of MDT test case 8.6.11.1 applicability | 12.1.0 | 12.2.0 |
| 2014-06 | RAN#64 | R5-142990 | 0543 | - | Applicability for new TC 8.2.4.23 Handover failure and RRC re- establishment on PCell or SCell successfully | 12.1.0 | 12.2.0 |
| 2014-06 | RAN#64 | R5-143214 | 0531 | - | Update description of extending applicability test cases | 12.1.0 | 12.2.0 |
| 2014-06 | RAN#64 | - | - | - | Small editorial corrections concerning table lines and font size | 12.2.0 | 12.2.1 |
| 2014-06 | RAN#64 | - | - | - | implementation of forgotten CR R5-142981 | 12.2.1 | |
| 2014-09 | RAN#65 | R5-144079 | | - | Addition of E-UTRA FDD Band 30 information to Annex A.4 | 12.2.2 | |
| 2014-09 | RAN#65 | R5-144253 | | - | Remove LTE MDT Test cases on PLMN change | 12.2.2 | |
| 2014-09 | RAN#65 | R5-144255 | | - | Add IMS APN configuration for IR.92 devices | 12.2.2 | |
| 2014-09 | RAN#65 | R5-144309 | | - | Addition of test applicability for new TCs - Intra-band non- contiguous CA | 12.2.2 | |
| 2014-09 2014-09 | RAN#65 | R5-144330 R5-144338 | | - | Update of FGI definitions in TS 36.523-2 | 12.2.2 | 12.3.0 12.3.0 |
| 2014-09 | RAN#65 RAN#65 | | 0549 | - | Update of MDT test case 8.6.5.2 applicability Add applicability for test cases 6.2.4.2 | 12.2.2 | 12.3.0 |
| 2014-09 | RAN#65 | R5-144497 | 0551 | - | Addition of Rel.12 Intra-Band Non-Contiguous CA Combinations to | 12.2.2 | |
| 2014.00 | | R5-144503 | 0550 | | 36.523-2 Annex A4 | 10.0.0 | 12.3.0 |
| 2014-09 2014-09 | RAN#65 RAN#65 | R5-144503 R5-144506 | | - | CA: Review of CA capabilities tables (Sig) New CA band combination CA NC 42 and CA 4-27-Update to | 12.2.2 | |
| | | | | - | 36.523-2 | | |
| 2014-09 | RAN#65 | R5-144521 | 0554 | - | Addition of applicability for new Intra-band non-Contiguous CA test cases | 12.2.2 | 12.3.0 |
| 2014-09 | RAN#65 | R5-144652 | | - | Addition of applicability for new test case, Inter-RAT Cell reselection EUTRAN to UTRAN MFBI test case 6.2.3.34 | | 12.3.0 |
| 2014-09 | RAN#65 | R5-144677 | 0556 | - | Remove applicability of test case 13.4.3.29 and 13.4.3.17 | | 12.3.0 |
| 2014-09 | RAN#65 | | 0557 | - | Adding applicability for new test cases 8.2.4.16.3, 8.2.4.18.3 and 8.2.4.20.3 | 12.2.2 | |
| 2014-09 | RAN#65 | R5-144726 | | - | Addition of applicability for new UL CoMP SIG test cases | 12.2.2 | |
| 2014-09 | RAN#65 | R5-144733 | | - | Update applicability of EUTRA Idle test case 6.2.1.4 | 12.2.2 | |
| 2014-09 | RAN#65 | R5-144794 R5-145068 | | - | Add IMS APN as the second PDN configuration for IR.92 devices | 12.2.2 | |
| 2014-12 2014-12 | RAN#66 RAN#66 | R5-145068 R5-145182 | | - | Update of test case 8.6.7.2 applicability test condition New CA band combination CA_1A-3A - Updates of Table A.4.3.3.3-3 | 12.3.0 12.3.0 | 12.4.0 12.4.0 |
| 2014-12 | RAN#66 | R5-145228 | 0663 | - | Introduction of CA_42C into TS36.523-2 | 12.3.0 | 12.4.0 |
| 2014-12 | RAN#66 | R5-145272 | | - | Update applicability for 10.4.2 | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145336 | 0665 | - | Update the applicability of test case 8.2.2.8 | 12.3.0 | 12.4.0 |
| 2014-12 | RAN#66 | R5-145349 | 0666 | - | Existing CA band combination CA_39C: update ICS proforma for protocol | 12.3.0 | 12.4.0 |
| 2014-12 | RAN#66 | | 0667 | - | Addition of CA_18A-28A configuration in Table A.4.3.3.3-3 | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145373 | | - | Addition of CA_1A-28A configuration in Table A.4.3.3.3-3 | 12.3.0 | - |
| 2014-12 | RAN#66 | R5-145395 | | - | Add applicability for new test case Inter-RAT cell reselection from UTRA to E-UTRA / MFBI | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145398 | | - | Editorial correction to 6.1.2.20 title | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145412 | | - | Update of applicability statements for mandatory Rel-11 capabilities | | |
| 2014-12 2014-12 | RAN#66 RAN#66 | R5-145413 R5-145435 | | <u> -</u> | Update of References Update of elCIC test case 8.3.1.20 title | 12.3.0 12.3.0 | |
| 2014-12 | RAN#66 | R5-145442 | | <u> -</u> | Introduction of 1+11 and 8+11 in 36.523-2 | | 12.4.0 |
| 2014-12 | RAN#66 | R5-145575 | | 1- | Update applicability for 9.2.1.1.28 | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145582 | | - | Add applicability for new EMM test case 9.2.1.1.28a | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145632 | 0677 | - | Editorial corrections to 36.523-2 (CA test cases) | | 12.4.0 |
| 2014-12 | RAN#66 | R5-145636 | | - | Correct IR.92 capability | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145703 | | - | Addition of applicability of 6.1.1.8 and 6.1.1.9 test cases for RFT119 | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145704 | | - | Correction to test case title of 6.1.1.7 | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145706 | | - | Correction to applicability of test case 9.2.1.2.1b and 9.2.3.2.1b | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145707 | | - | Correction to applicability of test case 9.2.2.1.3 | 12.3.0 | |
| 2014-12 2014-12 | RAN#66 RAN#66 | R5-145708 R5-145709 | | | Remove Inter-RAT CSG test case 6.3.8 applicability Correction to ICS of EUTRA ZUC algorithm Test Cases | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145709 R5-145710 | | 1- | Addition applicability of short DRX test cases | 12.3.0 12.3.0 | |
| 2014-12 | RAN#66 | R5-145710 | | <u> -</u> | Update of FGI definitions in TS 36.523-2 | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145712 | | 1- | Update of test case 10.5.1.b | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145744 | | - | Addition of applicability statements for new rSRVCC test cases | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145783 | | - | Update of applicability of ROHC tc 8.2.1.8 | 12.3.0 | |
| 2014-12 | RAN#66 | R5-145788 | | - | Updates to VoLTE UE capabilities to support XCAP over Internet PDN | 12.3.0 | 12.4.0 |
| 2014-12 | RAN#66 | R5-145798 | | - | Addition of CA_4A-7A and CA_3A-20A to Annex A4 | 12.3.0 | |
| 2015-03 | RAN#67 | R5-150094 | 0692 | <u> -</u> | Correction to applicability for CA test cases 8.2.4.16.3, 8.2.4.18.3 | 12.4.0 | 12.5.0 |

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| | | | | | and 8.2.4.20.3 | | |
| 2015-03 | RAN#67 | R5-150368 | 0693 | - | Addition of CA_8A-20A to Annex A.4.3.3 of TS 36.523-2 | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150375 | 0694 | - | Introduction of SIG applicability for CA band combinations 5+25 and 12+25 | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150403 | 0695 | - | Applicability update of IDLE mode test case 6.2.2.5 | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150430 | | - | Addition of applicability statements for new rSRVCC to GERAN test cases | | |
| 2015-03 | RAN#67 | R5-150432 | 0697 | - | Addition of CA 1-41 and CA 26-41 in 36.523-2 | 12.4.0 | 1250 |
| 2015-03 | RAN#67 | R5-150481 | | - | Addition of CA_1A-20A to Annex A.4.3.3 of TS 36.523-2 | 12.4.0 | |
| 2015-03 | RAN#67 | | 0699 | - | Correction to the applicability of EUTRA to UTRA HSUPA test case 8.4.1.5 | | 12.5.0 |
| 2015-03 | RAN#67 | R5-150539 | 0700 | - | Update of applicability for TC 8.3.4.4 'Inter-RAT SI acquisition / RRC_CONNECTED / UMTS member CSG cell' | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150548 | 0701 | - | Addition of Multiple 2DL Interband CA combinations to 36.523-2 Table A.4.3.3.3-3 | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150557 | 0702 | - | Update of FGI definitions in TS 36.523-2 | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150581 | | - | Addition of CA_1-7, CA_23 and CA_23-29 to TS 36.523-2 | 12.4.0 | |
| 2015-03 | RAN#67 | R5-150601 | | - | Remove applicability for test case 8.2.4.22 | 12.4.0 | |
| 2015-03 | RAN#67 | R5-150674 | 0705 | - | Correction to Applicability for eMDT test cases | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150675 | | - | Corrections in applicability conditions of Table 4-1a for 1x CS Fallback test cases | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150676 | 0707 | - | Corrections to applicability statements for MIMO test cases 8.2.4.12 and 12.3.1 | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150677 | 0708 | - | Applicability of new test cases 8.5.4.2 and 8.5.4.3 (Network- requested CA Band Combination Capability Signalling) | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150678 | 0709 | - | Addition of applicability statements for new test case "Inter-system mobility / E-UTRA PS voice to GSM CS voice / HO cancelled / Notification procedure / SRVCC" | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150685 | 0710 | - | Addition of CA_2-30 to Annex A.4.3 of TS 36.523-2. | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150686 | 0711 | - | Addition of CA_4-30 to Annex A.4.3 of TS 36.523-2. | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150687 | 0712 | - | Addition of CA_5-30 to Annex A.4.3 of TS 36.523-2. | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150721 | 0713 | - | Applicability of new test cases 13.4.3.39 and 13.4.3.40 | 12.4.0 | 12.5.0 |
| 2015-03 | RAN#67 | R5-150744 | 0714 | - | Addition of CA_41-42 to TS 36.523-2 | 12.4.0 | 12.5.0 |
| 2015-06 | RAN#68 | R5-151130 | 0715 | - | CA: Corrections to CA capability tables | 12.5.0 | 12.6.0 |
| 2015-06 | RAN#68 | R5-151147 | 0717 | - | Correction to Applicability for eMDT test cases 8.6.9.3 | 12.5.0 | 12.6.0 |
| 2015-06 | RAN#68 | R5-151169 | 0718 | - | Correction to C113dT in the applicability of test conditions | 12.5.0 | 12.6.0 |
| 2015-06 | RAN#68 | R5-151170 | | - | Editorial correction in the applicability of test conditions | 12.5.0 | |
| 2015-06 | RAN#68 | R5-151239 | | 1 | Update to the applicability of Intra/inter-frequencySI acquisition Home eNB test cases | 12.5.0 | |
| 2015-06 | RAN#68 | R5-151240 | | - | Update VoLTE definition in A.4.5 | | 12.6.0 |
| 2015-06 | RAN#68 | R5-151255 | - | - | Update of CA Physical Layer Baseline Implementation Capabilities for Rel-12 CA 2UL configurations | | 12.6.0 |
| | | R5-151394 | | - | Implementation Capability statement for Half-Duplex operation Type B for UE Cat 0 | 12.5.0 | |
| 2015-06 | RAN#68 | R5-151731 | | - | Applicability of a new TC 13.5.2 (Smart Congestion Mitigation) | 12.5.0 | |
| 2015-06 | RAN#68 | R5-151785 | | 1 | Update of eICIC test case 8.3.1.21 title | 12.5.0 | |
| 2015-06 | RAN#68 | R5-151786 | | 1 | Update of elCIC test case 8.3.1.28 title | 12.5.0 | |
| 2015-06 | RAN#68 | R5-151787 | | 1 | Applicability correction to test case 13.4.3.41 | 12.5.0 | |
| 2015-06 | RAN#68 | R5-151788 | | 1 | Correction to IMS Emergency Call test cases 11.2.8 | 12.5.0 | |
| 2015-06 | RAN#68 | R5-151789 | | 1 | Editorial correction to C32 in 36.523-2 | 12.5.0 | |
| 2015-06 | RAN#68 | R5-151790 | | 1 | Editorial correction to C216F and C216T in 36.523-2 | 12.5.0 | |
| 2015-06 2015-06 | RAN#68 RAN#68 | R5-151793 R5-151966 | | 1 | Addition of 3DL CA Configurations to 36.523-2 Addition of frequency for E-UTRA band 32 | 12.5.0 12.5.0 | |
| 2015-06 | RAN#68 RAN#68 | R5-151966 R5-151974 | | 1 | Applicability of New Low Cost MTC protocol test cases | 12.5.0 | |
| 2015-00 | RAN#68 | R5-152057 | | 1 | Applicability of New 3GPP/WLAN Offload Test Cases | 12.5.0 | |
| 2015-06 | RAN#68 | R5-152061 | | 1 | Addition of new D2D test case 19.2.1 - Successful Announce Request Procedure/Direct Discovery | | 12.6.0 |
| 2015-06 | RAN#68 | R5-152064 | 0740 | 1 | Addition of new applicability for SCM TCs | 12.5.0 | 1260 |
| 2015-06 | RAN#68 | R5-152086 | | 1 | Applicability Update of EMM information procedure test case 9.1.5.1 | 12.5.0 | |
| 2015-06 | RAN#68 | R5-152087 | 0739 | 1 | Addition of applicability for LTE Coverage Enhancements | 12.5.0 | 12.6.0 |
| 2015-06 | RAN#68 | R5-152089 | | 1 | Addition of applicability for newly added TC 'cell reselection / MFBI/UE does not support multiBandInfoList' | | 12.6.0 |
| 2015-06 | RAN#68 | R5-152106 | 0733 | 1 | Add Applicability for New TC 8.2.4.24.1 - CA / RRC connection reconfiguration / SCell Addition / Success /RRC Processing | 12.5.0 | 12.6.0 |
| 2015-06 | RAN#68 | R5-152113 | 0735 | 1 | Delay/Intra-Band Contiguous CA Addition of applicability for newly added TC 'SRVCC Emergency | 12.5.0 | 12.6.0 |
| 2015 00 | | DE 450440 | 0755 | 4 | Call Handover to GERAN' | 10 5 0 | 1260 |
| 2015-06 2015-09 | RAN#68 RAN#69 | R5-152146 R5-153232 | | - | Correction to applicability statement of rSRVCC test case 13.4.3.39 Add applicability of new and update applicability of existing protocol | | 12.6.0 |

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|--------------------|------------------|------------------------|------|--------|--|--------|------------------|
| | | | | e v | | | |
| | | | | - | test cases for Category 0 UE | | |
| 2015-09 | RAN#69 | R5-153235 | 0762 | - | Update of applicability for CA 2UL protocol test cases | 12.6.0 | 12.7.0 |
| 2015-09 | RAN#69 | R5-153279 | 0764 | - | Void applicability of eICIC test case 8.3.1.20 | 12.6.0 | 12.7.0 |
| 2015-09 | RAN#69 | R5-153336 | 0765 | - | Addition of applicability of new EUTRAN-WLAN interworking test cases | 12.6.0 | 12.7.0 |
| 2015-09 | RAN#69 | R5-153347 | 0766 | - | Correction to content of comments item A.4.2.1.1-1/1 | 12.6.0 | 12.7.0 |
| 2015-09 | RAN#69 | R5-153417 | | - | Correction to information of feature group indicators | | 12.7.0 |
| 2015-09 | RAN#69 | R5-153438 | | - | Applicability for new TDD-FDD CA protocol test cases | 12.6.0 | 12.7.0 |
| 2015-09 | RAN#69 | R5-153501 | | - | Aligning 36.521-2 and 36.523-2 Supported CA Configurations Tables | 12.6.0 | 12.7.0 |
| 2015-09 | RAN#69 | R5-153529 | | - | Update of FGI definitions in TS 36.523-2 | 12.6.0 | 12.7.0 |
| 2015-09 | RAN#69 | R5-153541 | | - | Updates to applicability of rSRVCC test cases | | 12.7.0 |
| 2015-09 | RAN#69 | R5-153554 | | - | Correction to applicability conditions C154F and C154T | | 12.7.0 |
| 2015-09 | RAN#69 | R5-153560 | 0774 | - | Correction to Test Case Selection Expressions of test cases 9.2.1.1.30, 9.2.1.2.4a and 9.2.3.2.4a | 12.6.0 | 12.7.0 |
| 2015-09 | RAN#69 | R5-153606 | 0780 | - | [PTCO] Implicit Testing: Removing TCs from the applicability table | 12.6.0 | 12.7.0 |
| 2015-09 | RAN#69 | R5-153742 | 0763 | 1 | Void applicability of 1x SRVCC test case 8.4.7.1 | | 12.7.0 |
| 2015-09 | RAN#69 | R5-153743 | 0775 | 1 | Adding ICS for dynamic change of GERAN Release | | 12.7.0 |
| 2015-09 | RAN#69 | R5-153744 | | 1 | Indicating a limited number of releases for TC applicability | | 12.7.0 |
| 2015-09 | RAN#69 | R5-153745 | | 1 | Adding applicability for MTSI SSAC access probability TCs | | 12.7.0 |
| 2015-09 | RAN#69 | R5-153770 | 0783 | - | Adding applicability for new SCM TC 13.5.6 and renumbering of existing SCM | 12.6.0 | 12.7.0 |
| 2015-09 | RAN#69 | R5-153962 | | 1 | Correction of PICS references in test applicabilities | 12.6.0 | 12.7.0 |
| 2015-09 | RAN#69 | R5-153963 | | - | Addition of applicability of new D2D test cases | | 12.7.0 |
| 2015-09 | RAN#69 | R5-153974 | | - | Deletion of TC 8.2.4.24 | | 12.7.0 |
| 2015-09 | RAN#69 | R5-153981 | | 1 | Correction to TTI bundling PICS | | 12.7.0 |
| 2015-09 | RAN#69 | R5-153985 | | 1 | Update applicability of test case 8.2.4.17.2 (AP#67.03) | | 12.7.0 |
| 2015-09 | RAN#69 | R5-154051 | 0786 | - | Applicability of Test Case - WLAN Offload / Cell Selection / EUTRA RRC_Idle to/from WLAN (Qqualmeas, ChannelUtilizationWLAN) - 3GPP/WLAN Work Plan | 12.6.0 | 12.7.0 |
| 2015-09 | RAN#69 | R5-154053 | 0777 | 1 | Update of 36.523-2 for explicit ICS/IXIT branching the TC execution | 12.6.0 | 12.7.0 |
| 2015-12 | RAN#70 | R5-155347 | 0791 | - | Addition of applicability for new WLAN interworking test cases | 12.7.0 | 12.8.0 |
| 2015-12 | RAN#70 | R5-155364 | 0792 | - | Correction to 'Release other RAT' for CA test case 8.4.2.7.1, 8.4.2.7.2 & 8.4.2.7.3 | 12.7.0 | 12.8.0 |
| 2015-12 | RAN#70 | R5-155432 | 0794 | - | Addition of applicability for new D2D test cases 8.8.1.5 and 8.8.2.5 | 12.7.0 | 12.8.0 |
| 2015-12 | RAN#70 | R5-155621 | 0797 | - | [PTCO] Voiding TC 8.1.2.1 in applicability table | 12.7.0 | 12.8.0 |
| 2015-12 | RAN#70 | R5-155622 | 0798 | - | [PTCO] Repairing error when attempting to remove 9.2.1.1.21 | 12.7.0 | 12.8.0 |
| 2015-12 | RAN#70 | R5-155682 | 0801 | - | Addition of applicability of new 3GPP/WLAN test case | 12.7.0 | 12.8.0 |
| 2015-12 | RAN#70 | R5-155711 | 0803 | - | Editorial Correction to pics declaration for standalone GNSS location information | 12.7.0 | 12.8.0 |
| 2015-12 | RAN#70 | R5-155723 | 0804 | - | Addition of applicability for new D2D test case on Successful ProSe Direct Communication/Limited Service state | 12.7.0 | 12.8.0 |
| 2015-12 | RAN#70 | R5-155753 | | - | Addition of ICS for support of 64QAM in UL | 12.7.0 | |
| 2015-12 | RAN#70 | R5-155906 | 0799 | 1 | Correction to C56 selection expression to remove redundant PICS for Category 6 to Category10 | 12.7.0 | 12.8.0 |
| 2015-12 | RAN#70 | R5-155908 | | - | Correction to execution guideline of 7.1.3.11.2 | | 12.8.0 |
| 2015-12 | RAN#70 | R5-155911 | | 1 | 36.523-2: CA_2A-2A-13A editorial update | | 12.8.0 |
| 2015-12 | RAN#70 | R5-155934 | | 1 | Add UE implementation capability for ProSe | | 12.8.0 |
| 2015-12 | RAN#70 | R5-155940 | | 1 | Update to title of MTC test case 7.1.1.1a in 36.523-2 | | 12.8.0 |
| 2015-12 | RAN#70 | R5-155941 | | - | Addition of applicability for new Direct Communication test cases | | 12.8.0 |
| 2015-12 | RAN#70 | R5-155953 | | 1 | Applicability of new protocol Dual Connectivity test cases | | 12.8.0 |
| 2015-12 2015-12 | RAN#70 RAN#70 | R5-155956 R5-155973 | | 1 1 | Addition of applicability statements for new UEPCOP test case Addition of applicability for new SCE-L1 test cases 7.1.7.1.8, | | 12.8.0 12.8.0 |
| 2015-12 | RAN#70 | R5-156162 | 0811 | - | 7.1.7.1.9 and 7.1.7.1.10 Update the applicabity of loopback mode test cases for Multi-PDN | 12.7.0 | 12.8.0 |

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| V12.2.1 | September 2014 | Publication | | | | | |
| V12.2.2 | September 2014 | Publication | | | | | |
| V12.3.0 | September 2014 | Publication | | | | | |
| V12.4.0 | January 2015 | Publication | | | | | |
| V12.5.0 | April 2015 | Publication | | | | | |
| V12.6.0 | July 2015 | Publication | | | | | |
| V12.7.0 | October 2015 | Publication | | | | | |
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History