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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 15.3.0 Release 15)

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Contents

Foreword

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1 presented to TSG for information;

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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 releases 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".

[54] GSMA PRD IR.51: "IMS Profile for Voice, Video and SMS over Wi-Fi".

[55] GSMA PRD NG.108: "IMS Profile for Voice and SMS for UE category M1".

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

O optional – the test case is optional

N/A not applicable - in the given context, the test case is not recommended.

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

NOTE: The conditions are defined in Table 4-1a.

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	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
6	**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)	
					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	C224c	UEs supporting E-UTRA and NOT Category M1	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	C142a	UEs supporting E-UTRA FDD and E-UTRA TDD and NOT Category M1			Note 3	
6.1.1.3b	Cell reselection of ePLMN in manual mode / Single Frequency operation	Rel-8	R	UEs 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			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
6.1.1.4a	PLMN selection in shared network environment / Automatic mode / Between FDD and TDD	Rel-8	C142a	UEs supporting E-UTRA FDD and E-UTRA TDD and NOT Category M1				
6.1.1.6	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode / User reselection	Rel-8	C157a	UEs supporting E-UTRA and user initiated PLMN reselection in automatic mode and NOT Category M1	pc_eFDD		Either TC 6.1.1.6 or 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)	
					pc_eTDD			
6.1.1.7	PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer	Rel-10	C179a	UEs supporting E-UTRA and MinimumPeriodicSearchTimer and not supporting "Fast First Higher Priority PLMN search" and NOT Category M1	pc_eFDD		Either TC 6.1.1.7 or TC 6.1.1.7a shall be executed. (Note 8)	
					pc_eTDD			
6.1.1.7a	PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer / Single Frequency operation	Rel-10	C179	UEs supporting E-UTRA and MinimumPeriodicSearchTimer and not supporting "Fast First Higher Priority PLMN search". This test is 'cells on single frequency only' equivalent of 6.1.1.7	pc_eFDD		Either TC 6.1.1.7 or TC 6.1.1.7a shall be executed. (Note 8)	
					pc_eTDD			
6.1.1.8	PLMN selection of RPLMN or (E)HPLMN; Automatic mode	Rel-8	C212	UEs supporting E-UTRA and EF_LRPLMSI_Exception and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.1.1.9	PLMN selection of RPLMN or (E)HPLMN; Manual mode	Rel-8	C213	UEs supporting E-UTRA and ManualModeNetworkSelectionException	pc_eFDD			
					pc_eTDD			
6.1.2.1	Void							
6.1.2.2	Cell selection / $Q_{rxlevmin}$	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.1.2.2a	Cell selection / $Q_{qualmin}$	Rel-9	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD		Note 3	
					pc_eTDD			
6.1.2.2b	Cell selection / UE Cat 0 not allowed	Rel-12	C224	UEs supporting E-UTRA and UE Category 0	pc_eFDD			
					pc_eTDD			
6.1.2.2c	Cell selection / $Q_{rxlevmin}$ / Enhanced Coverage	Rel-13	C254	UEs supporting E-UTRA and (CE mode A or CE mode B)	pc_eFDD			
					pc_eTDD			
6.1.2.2d	Cell selection / $Q_{qualmin}$ / Enhanced Coverage	Rel-13	C254	UEs supporting E-UTRA and (CE mode A or CE mode B)	pc_eFDD			
					pc_eTDD			
6.1.2.3	Cell selection / Intra E-UTRAN / Serving cell becomes non-suitable (S<0 or barred)	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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			
					pc_eTDD			
6.1.2.5	Cell reselection for interband operation	Rel-8	C184	UEs supporting E-UTRA and more than 1 FDD or TDD E-UTRA band and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.1.2.5a	Cell reselection for interband operation/ Power Class 2 UE operation/ Between FDD and TDD	Rel-14	C281	UEs supporting E-UTRA FDD and E-UTRA TDD and Band 41 Power class 2 operation and NOT Category M1	pc_eFDD		Note 17	
6.1.2.5b	Cell reselection for interband operation using Pcompensation / Between FDD and TDD	Rel-14	C142a	UEs supporting E-UTRA FDD and E-UTRA TDD and NOT Category M1			Note 17	
6.1.2.5c	Inter-band cell reselection / Extended frequency list	Rel-12	C184	UEs supporting E-UTRA and more than 1 FDD or TDD E-UTRA band and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.1.2.6	Cell reselection using Q_{hyst}, Q_{offset} and $T_{reselection}$	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.1.2.6a	Cell reselection using $T_{reselection}$ / Enhanced Coverage	Rel-13	C254	UEs supporting E-UTRA and (CE mode A or CE mode B)	pc_eFDD			
					pc_eTDD			
6.1.2.6b	Cell reselection for enhanced coverage	Rel-13	C254b	UEs supporting E-UTRA and (CE mode A or CE mode B) and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.1.2.7	Cell reselection / Equivalent PLMN	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	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. (Note 4)	
					pc_eTDD			
6.1.2.8	Cell reselection using cell status and cell reservations / Access control class 0 to 9	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	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 to 15	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD		Either TC 6.1.2.9 or TC 6.1.2.9a	

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
							shall be executed. (Note 4)	
					pc_eTDD			
6.1.2.9a	Cell reselection using cell status and cell reservations / Access control class 11 to 15 / 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	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.1.2.11a	Inter-frequency cell reselection / Extended frequency list	Rel-12	C224c	UEs supporting E-UTRA and NOT Category M1	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	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.1.2.13	Cell reselection, $S_{intrasearch}$, $S_{nonintrasearch}$	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.1.2.14	Speed-dependent cell reselection	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.1.2.15	Inter-frequency cell reselection according to cell reselection priority provided by SIBs	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.1.2.15a	Inter-frequency cell reselection according to cell reselection priority provided by SIBs / Between FDD and TDD	Rel-9	C142a	UEs supporting E-UTRA FDD and E-UTRA TDD and NOT Category M1			Note 3	
6.1.2.15b	Inter-band cell reselection according to cell reselection priority provided by SIBs	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.1.2.16	Cell reselection / interband operation / Between FDD and TDD	Rel-9	C142a	UEs supporting E-UTRA FDD and E-UTRA TDD and NOT Category M1			Note 3	
6.1.2.17	Cell reselection for Squal to check against $S_{IntraSearchQ}$ and $S_{nonIntraSearchQ}$	Rel-9	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD		Note 3	
					pc_eTDD			
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	C224c	UEs supporting E-UTRA and NOT Category M1	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			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
6.1.2.20	Inter-frequency cell reselection / MFBI	Rel-9	C189bF	UEs supporting E-UTRA and MFBI feature indicated by Feature Group Indicator 31 and NOT Category M1	pc_eFDD		Note 3	
			C189bT		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 and NOT Category M1	pc_eFDD		Note 3	
			C189T		pc_eTDD			
6.1.2.22	Cell reselection / MFBI / UE does not supportmultiBandInfoList	Rel-8 to Rel-9 only	C229	UEs supporting E-UTRA and not support MFBI feature indicated by Feature Group Indicator 31 and NOT Category M1	pc_eFDD			
			C230		pc_eTDD			
6.1.2.23	Inter-band cell reselection / MFBI frequency band priority adjustment/Inter-band CA	Rel-12	C257	UEs supporting E-UTRA and MFBI feature indicated by Feature Group Indicator 31 and freqBandIndicatorPriority-r12 and Inter-band Carrier Aggregation	pc_eFDD			
			C258		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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
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 and NOT Category M1	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
6.2.2.4	Inter-RAT cell selection / From E-UTRAN RRC_IDLE to 1xRTT idle / Serving cell becomes non-suitable	Rel-8	C07	UEs supporting E-UTRA and 1xRTT and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
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 and NOT Category M1	pc_eFDD		Note 3	Rel-8 GERAN
					pc_eTDD			
6.2.3.2	Void							
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 and NOT Category M1	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 $Squal_{nonServingCell,x}$ > $Thresh_{x,\ high2}$)	Rel-9	C126	UEs supporting E-UTRA and UTRA and supporting Squal based cell reselection to UTRAN from E-UTRAN and NOT Category M1	pc_eFDD		Note 3	Rel-9 UTRA FDD
6.2.3.4	Inter-RAT Cell Reselection / From UTRA_CELL_PCH state to E-UTRA RRC_IDLE	Rel-8	C77	UEs supporting E-UTRA and UTRA and EUTRA Feature Group Indicator 1 and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	pc_eFDD		Note 3	Rel-9 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 and NOT Category M1	pc_eFDD			
					pc_eTDD			Rel-9 UTRA TDD

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 and NOT Category M1	pc_eFDD		Note 3	Rel-9 UTRA FDD
6.2.3.6	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle according to RAT priority provided by dedicated signalling	Rel-8	C01	UEs supporting E-UTRA and UTRA and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	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 > $Thresh_{HRPD, HighP}$)	Rel-9	C06	UEs supporting E-UTRA and HRPD and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.2.3.8	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD is lower reselection priority than E-UTRA	Rel-8	C06	UEs supporting E-UTRA and HRPD and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 > $Thresh_{1xRTT, HighP}$)	Rel-9	C07	UEs supporting E-UTRA and 1xRTT and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	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 and NOT Category M1	pc_eFDD		Note 3	
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
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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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.2.3.20	Void							
6.2.3.21	Inter-RAT cell reselection / From 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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			

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					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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					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 broadcasted 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 and NOT Category M1	pc_eFDD		Note 3	Rel-8 UTRA FDD
					pc_eTDD			
6.2.3.34	Inter-RAT cell reselection from E-UTRA to UTRA / MFBI	Rel-9	C189aF	UEs supporting E-UTRA and UTRA FDD and MFBI feature indicated by Feature Group Indicator 31 and NOT Category M1	pc_eFDD			
			C189aT		pc_eTDD			
6.2.3.35	Inter-RAT cell reselection from UTRA to E-UTRA / MFBI	Rel-10	C189cF	UEs supporting E-UTRA and UTRA and MFBI feature indicated by Feature Group Indicator 31 and NOT Category M1	pc_eFDD		Note 3	Rel-8 UTRA FDD
			C189cT		pc_eTDD		Note 3	Rel-9 UTRA TDD

Clause	TC Title	Release	Applicability		Additional Information			
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6.2.4.1	Inter-RAT absolute priority based reselection in UTRA CELL_FACH to E-UTRA RRC_IDLE (Higher Priority Layers, Srxlev,x > Threshx,high and Srxlev,serv > Sprioritysearch1 and SqualServ > Sprioritysearch2)	Rel-11	C01a	UEs supporting E-UTRA and UTRA FDD and support of High Priority layer measurements or support of all priority layer measurements and cell Reselection procedure in CELL_FACH and NOT Category M1	pc_eFDD		Note 3	Rel-9 UTRA FDD
					pc_eTDD			
6.2.4.2	Inter-RAT absolute priority based reselection in UTRA CELL_FACH (Higher Priority Layers, no cell reselection to E-UTRA RRC_IDLE when Srxlev,serv < Sprioritysearch1)	Rel-11	C01a	UEs supporting E-UTRA and UTRA FDD and support of High Priority layer measurements or support of all priority layer measurements and cell Reselection procedure in CELL_FACH and NOT Category M1	pc_eFDD		Note 3	Rel-8 UTRA FDD
					pc_eTDD			
6.2.4.3	Inter-RAT absolute priority based reselection in UTRA _CELL_FACH to E-UTRA RRC_IDLE (Higher Priority Layers, Squal,x > Threshx,high2 and Srxlev,serv > Sprioritysearch1 and SqualServ > Sprioritysearch2)	Rel-11	C01a	UEs supporting E-UTRA and UTRA FDD and support of High Priority layer measurements or support of all priority layer measurements and cell Reselection procedure in CELL_FACH and NOT Category M1	pc_eFDD		Note 3	Rel-9 UTRA FDD
					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 > Threshx,high)	Rel-11	C01b	UEs supporting E-UTRA and UTRA FDD and support of all priority layer measurements and cell reselection procedure in CELL_FACH and NOT Category M1	pc_eFDD		Note 3	Rel-9 UTRA FDD
					pc_eTDD			
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	C01b	UEs supporting E-UTRA and UTRA FDD and support of all priority layer measurements and cell reselection procedure in CELL_FACH and NOT Category M1	pc_eFDD		Note 3	Rel-9 UTRA FDD
					pc_eTDD			
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 and Srxlev,x > Threshx,low)	Rel-11	C01b	UEs supporting E-UTRA and UTRA FDD and support of all priority layer measurements and cell reselection procedure in CELL_FACH and NOT Category M1	pc_eFDD		Note 3	Rel-9 UTRA FDD
					pc_eTDD			
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)	Rel-11	C01b	UEs supporting E-UTRA and UTRA FDD and support of all priority layer measurements and cell reselection procedure in CELL_FACH and NOT Category M1	pc_eFDD		Note 3	Rel-9 UTRA FDD
					pc_eTDD			
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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
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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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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	C224c	UEs supporting E-UTRA and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.3.10	Void							
6.3.11	Void							
6.3.12	Void							
6.4.1	Manual CSG ID selection / Hybrid cell whose CSG ID is not in the Allowed CSG list nor Operator's list	Rel-9	C80	UEs supporting E-UTRA and allowed CSG list and manual CSG selection and NOT Category M1	pc_eFDD		Note 3	
					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 and NOT Category M1	pc_eFDD		Note 3	
					pc_eTDD			
6.4.3	Inter-RAT cell reselection / From E-UTRA RRC_IDLE non-CSG cell to UTRA_Idle member hybrid cell	Rel-9	C76	UEs supporting E-UTRA and UTRA and allowed CSG list and manual CSG selection and NOT Category M1	pc_eFDD		Note 3	Rel-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 and NOT Category M1	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 and NOT Category M1	pc_eFDD		Note 3	Rel-8 UTRA FDD
					pc_eTDD			Rel-9 UTRA TDD

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 and NOT Category M1	pc_eFDD		Note 3	Rel-8 UTRA FDD
					pc_eTDD			Rel-9 UTRA TDD
6.4.7	Inter-RAT cell reselection / From GSM_Idle/GPRS Packet_Idle 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 and NOT Category M1	pc_eFDD		Note 3	
					pc_eTDD			
6.5.1	WLAN Offload / Cell Selection / EUTRA RRC_Idle to/from WLAN (Qrxlevmeas, BeaconRSSI, WLAN identifier no match/match)	Rel-12	C225	UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.5.2	WLAN Offload / Cell Selection / EUTRA RRC_Idle to/from WLAN (Qrxlevmeas, BackhaulRateDlWLAN)	Rel-12	C225	UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.5.3	WLAN Offload / Cell Selection / EUTRA RRC_Idle to/from WLAN (Qqualmeas, BackhaulRateUlWLAN)	Rel-12	C225	UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN and NOT Category M1				
					pc_eTDD			
6.5.4	WLAN Offload / Cell Selection / EUTRA RRC_Idle to/from WLAN (Qqualmeas, ChannelUtilizationWLAN)	Rel-12	C225	UEs supporting E-UTRA and WLAN and allowed offload to and from WLAN and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
6.5.6	Void							
7	**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			
					pc_eTDD			
7.1.1.1a	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			
					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			
7.1.2.1a	Correct selection of RACH parameters / Random access preamble and PRACH resource explicitly signalled to the UE by RRC / Non-contention based random access procedure for high speed scenario	Rel-14	C313	UEs supporting E-UTRA FDD or E-UTRA TDD and high speed enhancement for prach	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
7.1.2.3a	Correct selection of RACH parameters/ Preamble selected by MAC itself/ Contention based random access procedure/ Enhanced coverage	Rel-13	C254a	UEs supporting E-UTRA and CE Mode A	pc_eFDD			
					pc_eTDD			
7.1.2.3b	Correct selection of RACH parameters / Preamble selected by MAC itself / Contention based random access procedure for high speed scenario	Rel-14	C313	UEs supporting E-UTRA FDD or E-UTRA TDD and high speed enhancement for prach	pc_eFDD			
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			
					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 back off 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 and UL (Pcell) supported in each band of Inter-band CA combination under test	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			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 and UL (Pcell) supported in each band of Inter-band CA combination under test	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			
7.1.2.12	CA / Random access procedure / TDD SCell without PUSCH/PUCCH transmission	Rel-14	C320	UEs supporting E-UTRA FDD-TDD DL CA and SRS switching between a band pair.	pc_eFDD			
			C321	UEs supporting E-UTRA TDD-TDD DL CA and SRS switching between a band pair.	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			
					pc_eTDD			
7.1.3.2	Correct handling of DL assignment / Semi-persistent case	Rel-8	C100F C100T	UEs supporting E-UTRA and semi-persistence scheduling and Feature Group Indicator 7	pc_eFDD			
					pc_eTDD			
7.1.3.3	MAC PDU header handling	Rel-8	C224a	UEs supporting E-UTRA and NOT (UE Category 0 or UE Category M1)	pc_eFDD			
					pc_eTDD			
7.1.3.3a	MAC PDU header handling / UE with limited TB size	Rel-12	C224b	UEs supporting E-UTRA and (UE Category 0 or UE Category M1)	pc_eFDD			
					pc_eTDD			
7.1.3.4	Correct HARQ process handling / DCCH and DTCH	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
7.1.3.4a	Correct HARQ process handling / DCCH and DTCH/ Enhanced Coverage / CE Mode A	Rel-13	C254a	UEs supporting E-UTRA and CE mode A	pc_eFDD			
					pc_eTDD			
7.1.3.5	Correct HARQ process handling / CCCH	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
7.1.3.5a	Correct HARQ process handling / CCCH/ Enhanced Coverage / CE Mode A	Rel-13	C254a	UEs supporting E-UTRA and CE Mode A	pc_eFDD			
					pc_eTDD			
7.1.3.6	Correct HARQ process handling / BCCH	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
7.1.3.7	MAC padding	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.1.3.9	MAC reset / DL	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 and DTCH / Pcell and Scell / Intra-band non-Contiguous CA	Rel-11	C132a	UEs supporting E-UTRA and Downlink Intra-band non-contiguous CA	pc_eFDD			
					pc_eTDD			
7.1.3.11.4	FDD-TDD CA / Correct HARQ process handling / DCCH and DTCH / FDD PCell and TDD SCell	Rel-12	C235a	UE supporting E-UTRA FDD and TDD and 2DL CA and 1UL CA and Support of tdd-FDD-CA-PCellDuplex-r12 with the second bit setting to "1"				
7.1.3.11.5	FDD-TDD CA / Correct HARQ process handling / DCCH and DTCH / TDD PCell and FDD SCell	Rel-12	C234a	UE supporting E-UTRA FDD and TDD and 2DL CA and 1UL CA and Support of tdd-FDD-CA-PCellDuplex-r12 with the first bit setting 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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
7.1.3.16	Correct handling of DL assignment / Dynamic case / eIMTA	Rel-12	C256	UEs supporting E-UTRA and eIMTA and NOT Category M1	pc_eTDD			
7.1.3.16a	CA / Correct handling of DL assignment / Dynamic case / eIMTA / Inter-band CA	Rel-12	C264	UEs supporting E-UTRA and Inter-band Carrier Aggregation and eIMTA	pc_eTDD			
7.1.4.1	Correct handling of UL assignment / Dynamic case	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
7.1.4.1a	Correct handling of UL assignment / Dynamic case / Skip padding transmissions	Rel-14	C325	UE supporting skip of uplink transmissions if no data is available	pc_eFDD			
					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			
			C100T		pc_eTDD			
7.1.4.2a	Correct handling of UL assignment / Semi-persistent case / Skip padding transmissions / SPS activation and de-activation confirmation	Rel-14	C326	UE supporting skip of SPS uplink transmissions if no data is available	pc_eFDD			
					pc_eTDD			
7.1.4.2b	Correct handling of UL assignment / Semi-persistent case / SPS interval shorter than 10 subframes	Rel-14	C327	UE supporting SPS interval shorter than 10 subframes	pc_eFDD			
					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 or UE Category 1 or UE Category M1)	pc_eFDD			
			C19T		pc_eTDD			
7.1.4.3a	Logical channel prioritization handling / UE with limited TB size	Rel-12	C19aF	UEs supporting E-UTRA and Feature Group Indicator 6 and Feature Group Indicator 7 and (UE Category 0 or UE Category 1 or UE Category M1)	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			
					pc_eTDD			
7.1.4.5	Correct handling of MAC control information / Scheduling requests and random access procedure	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.1.4.6	Correct handling of MAC control information / Buffer status / UL data arrive in the UE Tx buffer and retransmission of BSR / Regular BSR	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.1.4.7	Correct handling of MAC control information / Buffer status / UL resources are allocated / Padding BSR	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
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			
					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			
					pc_eTDD			
7.1.4.10	MAC padding	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			

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7.1.4.11	Correct HARQ process handling	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
7.1.4.11a	Correct HARQ process handling / Semi-persistent case / Non-adaptive retransmission / Fixed Redundancy Version	Rel-14	C326	UE supporting skip of SPS uplink transmissions if no data is available	pc_eFDD			
					pc_eTDD			
7.1.4.12	MAC reset / UL	Rel-8	C16aF	UEs supporting E-UTRA and Feature Group Indicator 7 and NOT Category M1	pc_eFDD			
			C16aT		pc_eTDD			
7.1.4.12a	MAC Partial reset / UL for Voice and Video Enhancement	Rel-14	C299	UE supporting PUSCH enhancement for MMTEL voice and video enhancements mode	pc_eFDD			
					pc_eTDD			
7.1.4.13	MAC PDU header handling	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			
			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	C224c	UEs supporting E-UTRA and NOT Category M1	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 and FGI 113	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 and UL (Pcell) supported in each band of Inter-band CA combination under test	pc_eFDD			
					pc_eTDD			
7.1.4.19.3	CA / UE power headroom reporting / SCell activation and DL pathloss change reporting / Extended PHR / Intra-band non-Contiguous CA	Rel-11	C207	UEs supporting E-UTRA and Uplink Intra-band non-Contiguous CA	pc_eFDD			
					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 and FGI 113	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 and UL (Pcell) supported in each band of Inter-band CA combination under test	pc_eFDD			
					pc_eTDD			

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7.1.4.20.3	CA / Correct handling of MAC control information / Buffer status / Intra-band non-Contiguous CA	Rel-11	C207	UEs supporting E-UTRA and Uplink Intra-band non-Contiguous CA	pc_eFDD			
					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 and NOT Category M1	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 and NOT Category M1	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 or Category M1)	pc_eFDD			
					pc_eTDD			
7.1.4.24a	Correct HARQ process handling / TTI bundling without resource allocation restriction / UE with limited TB size	Rel-12	C228a	UEs supporting E-UTRA and TTI bundling and UE Category 0	pc_eFDD			
					pc_eTDD			
7.1.4.24b	Correct HARQ process handling / Enhanced Coverage / CE Mode A	Rel-13	C254a	UEs supporting E-UTRA and CE mode A	pc_eFDD			
					pc_eTDD			
7.1.4.24c	Correct HARQ process handling / Enhanced Coverage / CE Mode B	Rel-13	C255	UEs supporting E-UTRA and CE mode B	pc_eFDD			
					pc_eTDD			
7.1.4.24d	Correct HARQ process handling / Repetition with asynchronous PUSCH enhancement	Rel-14	C334	UEs supporting E-UTRA and PUSCH enhancement for MMTEL voice and video enhancements mode	pc_eFDD			
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"				
7.1.4.26.1	Correct handling of MAC control information / Buffer status / Split DRB	Rel-12	C244	UEs supporting E-UTRA and DC Split DRB	pc_eFDD			
					pc_eTDD			
7.1.4.27.1	DC power headroom reporting / PSCell activation and DL pathloss change reporting / SCG DRB	Rel-12	C245	UEs supporting E-UTRA and DC SCG DRB	pc_eFDD			
					pc_eTDD			
7.1.4.27.2	DC power headroom reporting/ PSCell addition and DL pathloss change reporting / Split DRB	Rel-12	C244	UEs supporting E-UTRA and DC Split DRB	pc_eFDD			
					pc_eTDD			
7.1.4.28	Correct handling of UL assignment / Dynamic case / eIMTA	Rel-12	C256	UEs supporting E-UTRA and eIMTA and NOT Category M1	pc_eTDD			
7.1.4.28a	CA / Correct handling of UL assignment / Dynamic case / eIMTA / Inter-band CA	Rel-12	C265	UEs supporting E-UTRA and Inter-band Uplink Carrier Aggregation and eIMTA	pc_eTDD			
7.1.4.29.1		Rel-13	C301		pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
	CA / PUCCH SCell / Correct handling of MAC control information / Scheduling requests and PUCCH			UEs supporting E-UTRA and DL CA and UL CA and PUCCH SCell	pc_eTDD			
7.1.4.29.2	CA / PUCCH SCell / UE power headroom reporting / Periodic reporting	Rel-13	C301	UEs supporting E-UTRA and DL CA and UL CA and PUCCH SCell	pc_eFDD pc_eTDD			
7.1.4.30	Void							
7.1.4.31	eLAA / Logical channel prioritization handling / laa-UL-Allowed	Rel-14	C330	UEs supporting E-UTRA and uplink LAA	pc_eFDD pc_eTDD			
7.1.4.32.1	eLAA / SCell PUSCH / Correct handling of UL assignment / DCI0A/0B / One step scheduling	Rel-14	C330	UEs supporting E-UTRA and uplink LAA	pc_eFDD pc_eTDD			
7.1.4.32.2	eLAA / SCell PUSCH / Correct handling of UL assignment / DCI4A/4B/One step scheduling	Rel-14	C331	UEs supporting E-UTRA and uplink LAA and UL MIMO	pc_eFDD pc_eTDD			
7.1.4.32.3	eLAA / SCell PUSCH / Correct handling of UL assignment / DCI0A/0B / Two step scheduling	Rel-14	C332	UEs supporting E-UTRA and uplink LAA and two step scheduling	pc_eFDD pc_eTDD			
7.1.4.32.4	eLAA / SCell PUSCH / Correct handling of UL assignment / DCI4A/4B / Two step scheduling	Rel-14	C333	UEs supporting E-UTRA and uplink LAA and two step scheduling and UL MIMO	pc_eFDD pc_eTDD			
7.1.4.36	MAC PDU header handling / Recommended bit rate	Rel-14	C335	UEs supporting E-UTRA and PUSCH enhancement for MMTEL voice and video enhancements mode and bit rate recommendation query	pc_eFDD			
7.1.4a.1	Correct downlink reception and uplink transmission when specific valid subframes is signalled for BL UE	Rel-13	C254	UEs supporting E-UTRA and (CE Mode A or CE Mode B)	pc_eFDD pc_eTDD			
7.1.5.1	Inter-TTI PUSCH hopping by uplink grant	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD pc_eTDD			
7.1.5.2	Predefined intra-TTI PUSCH hopping (N_sb=1)	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD pc_eTDD			
7.1.5.3	Predefined intra-TTI PUSCH hopping (N_sb=2/3/4)	Rel-8	C58F C58T	UEs supporting E-UTRA and Feature Group Indicator 21 and NOT Category M1	pc_eFDD pc_eTDD			
7.1.5.4	Predefined inter-TTI PUSCH hopping (N_sb=1)	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD pc_eTDD			
7.1.5.5	Predefined inter-TTI PUSCH hopping (N_sb=2/3/4)	Rel-8	C58F C58T	UEs supporting E-UTRA and Feature Group Indicator 21 and NOT Category M1	pc_eFDD pc_eTDD			
7.1.5.6	PUSCH Hopping / multi-subframe repetitions	Rel-14	C334	UEs supporting E-UTRA and PUSCH enhancement for MMTEL voice and video enhancements mode	pc_eFDD pc_eTDD			
7.1.6.1	DRX operation / Short cycle not configured / Parameters configured by RRC	Rel-8	C08F C08T	UEs supporting E-UTRA and Feature Group 5 and NOT Category M1	pc_eFDD pc_eTDD		If TC 7.1.6.5 is executed this test case is optional. (Note 13)	
7.1.6.1a	DRX operation / Short cycle not configured / Parameters configured by RRC / Enhanced Coverage / CE Mode A	Rel-13	C08aF	UEs supporting E-UTRA and Feature Group 5 and CE Mode A	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
			C08aT		pc_eTDD			
7.1.6.2	DRX operation / Short cycle not configured / DRX command MAC control element reception	Rel-8	C08bF	UEs supporting E-UTRA and Feature Group 5	pc_eFDD			
			C08bT		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 and NOT Category M1	pc_eFDD			
			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 and NOT Category M1	pc_eFDD			
			C216T		pc_eTDD			
7.1.6.5	eDRX operation / Long cycle configured / Parameters configured by RRC	Rel-13	C260	UEs supporting E-UTRA and Extended Long DRX	pc_eFDD			
					pc_eTDD			
7.1.7.1.1	DL-SCH transport block size selection / DCI format 1 / RA type 0	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
7.1.7.1.2	DL-SCH transport block size selection / DCI format 1 / RA type 1	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
7.1.7.1.3	DL-SCH transport block size selection / DCI format 1A / RA type 2 / Localised VRB	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
7.1.7.1.4	DL-SCH transport block size selection / DCI format 1A / RA type 2 / Distributed VRB	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
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			
					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			
					pc_eTDD			
7.1.7.1.6a	DL-SCH transport block size selection / DCI format 2A / RA type 0 and RA type 1 / Two transport blocks enabled / 3 and 4 Layer Spatial Multiplexing	Rel-10	C296	UEs supporting E-UTRA and ((UE Category 5 to UE Category 7) or (UE Category 9 to UE Category 12) or UE DL Category 15 or UE DL Category 16 or UE DL Category 18 or UE DL Category 19 or UE DL Category 20 or UE DL Category 21) and 4-layer spatial multiplexing.	pc_eFDD			
					pc_eTDD			
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 21)) and downlink 256QAM	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 21)) 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 21)) and downlink 256QAM	pc_eFDD			
					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 21)) and downlink 256QAM	pc_eFDD			
					pc_eTDD			
7.1.7.1.11	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" / 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 21)) and downlink 256QAM	pc_eFDD			
					pc_eTDD			
7.1.7.1.12	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" / 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 21)) and downlink 256QAM	pc_eFDD			
					pc_eTDD			
7.1.7.1.12a	DL-SCH transport block size selection / DCI format 2A / RA type 0 and RA type 1 / Two transport blocks enabled / 3 and 4 Layer Spatial Multiplexing / 256QAM	Rel-12	C297	UEs supporting E-UTRA and (UE Category 11 or UE Category 12 or UE DL Category 13 or UE DL Category 15 or UE DL Category 16 or UE DL Category 18 or UE DL Category 19) or UE DL Category 20 or UE DL Category 21 and 4-layer spatial multiplexing and downlink 256QAM.	pc_eFDD			
					pc_eTDD			
7.1.7.1.13	DL-SCH transport block size selection / DCI format 6-1A / RA type 2 / Localised VRB	Rel-13	C254a	UEs supporting E-UTRA and CE mode A	pc_eFDD			
					pc_eTDD			
7.1.7.1.14	DL-SCH transport block size selection / DCI format 6-1B	Rel-13	C255	UEs supporting E-UTRA and CE mode B	pc_eFDD			
					pc_eTDD			
7.1.7.2.1	UL-SCH transport block size selection / DCI format 0	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
7.1.7.2.2	UL-SCH transport block size selection / DCI format 6-0A	Rel-13	C254a	UEs supporting E-UTRA and CE mode A	pc_eFDD			
					pc_eTDD			
7.1.7.2.3	UL-SCH transport block size selection / DCI format 6-0B/ Uplink resource allocation type 2	Rel-13	C255	UEs supporting E-UTRA and CE mode B	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
7.1.8.1	Periodic RI reporting using PUCCH / UE only supports 1 layer for spatial multiplexing in DL / Transmission mode 3/4	Rel-8	C103	UEs supporting E-UTRA and (UE Category 0 or UE Category 1) and NOT Category M1	pc_eFDD			
					pc_eTDD			
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			
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			
7.1.10.1	Sending SR on PUCCH with DMRS generated by using virtual cell identity / nPUCCH-Identity	Rel-11	C208	UEs supporting E-UTRA and UL CoMP and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
7.1.11.1	LAA transmits common control information in PDCCH scrambled with CC-RNTI	Rel-13	C280	UEs supporting E-UTRA and downlink LAA	pc_eFDD			
					pc_eTDD			
7.1.12.1	DataInactivityTimer expiry	Rel-14	C295	UEs supporting E-UTRA and data inactivity monitoring	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			
			C15T		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			
			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			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 *t-Reordering*	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 *t-Reordering*	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 PDUs with residual loss of RLC PDUs / Maximum re-ordering delay exceeds *t-Reordering*	Rel-8	C16F	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD			
			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			
					pc_eTDD			
7.2.3.2	AM RLC / Segmentation and reassembly / No PDU segmentation	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.2.3.3	AM RLC / Segmentation and reassembly / Framing Info Field	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.2.3.4	AM RLC / Segmentation and reassembly / Different numbers of length indicators	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.2.3.5	AM RLC / Reassembly / LI value > PDU size	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.2.3.6	AM RLC / Correct use of sequence numbering	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.2.3.7	AM RLC / Control of transmit window	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.2.3.8	AM RLC / Control of receive window	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.2.3.9	AM RLC / Polling for status	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.2.3.10	AM RLC / Receiver status triggers	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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			
					pc_eTDD			
7.2.3.14	AM RLC / In sequence delivery of upper layers PDUs	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.2.3.15	AM RLC / Re-ordering of RLC PDU segments	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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			
					pc_eTDD			
7.2.3.17	AM RLC / Re-segmentation RLC PDU / SO, FI, LSF	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
7.2.3.18	AM RLC / Reassembly / AMD PDU reassembly from AMD PDU segments, Segment Offset and Last Segment Flag fields	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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			
					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			
					pc_eTDD			
7.3.1.1	Maintenance of PDCP sequence numbers / User plane / RLC AM	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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			
			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			
			C16T		pc_eTDD			
7.3.3.1	Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / SNOW 3G	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 / SNOW 3G	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			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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							
7.3.5.2	PDCP handover / Lossless handover / PDCP sequence number maintenance	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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			
			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			
					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			
					pc_eTDD			
7.3.6.1	PDCP discard	Rel-8	C16F	UEs supporting E-UTRA and Feature Group Indicator 7	pc_eFDD			
			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			
7.3.7.2	PDCP Data Recovery / Reconfiguration of Split DRB	Rel-12	C244	UEs supporting E-UTRA and DC Split DRB	pc_eFDD			
					pc_eTDD			
7.3.7.3	PDCP Data Recovery / Reconfiguration of Split DRB to MCG/SCG DRBs	Rel-12	C246	UEs supporting E-UTRA and DC Split DRB and DC SCG DRB	pc_eFDD			
					pc_eTDD			
7.3.7.4	PDCP re-establishment at handover / Split DRB	Rel-12	C244	UEs supporting E-UTRA and DC Split DRB	pc_eFDD			
					pc_eTDD			
7.3.7.5	PDCP re-establishment at handover of MCG/SCG DRBs and at SCG change without handover with SCG DRB change	Rel-12	C246	UEs supporting E-UTRA and DC Split DRB and DC SCG DRB	pc_eFDD			
					pc_eTDD			
7.3.7.6	PDCP reordering of Split DRB / Maximum re-ordering delay below t-Reordering	Rel-12	C244	UEs supporting E-UTRA and DC Split DRB	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
					pc_eTDD			
7.3.7.7	PDCP reordering of Split DRB / t-Reordering timer operations	Rel-12	C244	UEs supporting E-UTRA and DC Split DRB	pc_eFDD			
					pc_eTDD			
7.3.8.1	Security Aspects / ProSe Direct Communication / Security Information for Confidentiality Protection - Correct Counting and Wrapping	Rel-12	C238	UEs supporting E-UTRA FDD and supporting ProSe direct communication	pc_eFDD			
7.3.8.2	Security Aspects / ProSe Direct Communication / Security Information for no Confidentiality Protection	Rel-12	C238	UEs supporting E-UTRA FDD and supporting ProSe direct communication	pc_eFDD			
7.3.8.3	Void							
7.3.9.1	PDCP SDU transmission/ V2X Sidelink Communication/ No Header Compression for Non-IP type / No Confidentiality Protection for both Non-IP type and IP type	Rel-14	C307	UEs supporting E-UTRA and V2X sidelink communication	pc_eFDD			
					pc_eTDD			
8	**RADIO RESOURCE CONTROL**							
8.1.1.1	Void							
8.1.1.1a	RRC / Direct Indication Information / Notification of BCCH modification in idle mode	Rel-13	C254	UEs supporting E-UTRA and (CE Mode A or CE Mode B)	pc_eFDD			
					pc_eTDD			
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			
8.1.1.2a	RRC / Paging for notification of BCCH modification in idle mode / DRX cycle longer than the modification period	Rel-13	C262	UEs supporting E-UTRA and Extended DRX	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	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.1.1.7	RRC / Paging / EAB active	Rel-11	C194	UEs supporting E-UTRA and EAB and LAP	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			
					pc_eTDD			
8.1.2.3	RRC connection establishment / Return to idle state after T300 timeout	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
8.1.2.5	RRC connection establishment / 0% access probability for MO calls, no restriction for MO signalling	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
					pc_eTDD			
8.1.2.6	RRC connection establishment / Non-zero percent access probability for MO calls, no restriction for MO signalling	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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			
					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			
					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			
					pc_eTDD			
8.1.2.14	RRC connection establishment / High speed flag	Rel-9	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD		Note 3	
					pc_eTDD			
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	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.1.3.5	RRC connection release / Success / With priority information	Rel-8	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.1.3.5a	RRC connection release / Success / With extended priority information	Rel-12	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.1.3.6	RRC connection release / Redirection from E-UTRAN to UTRAN	Rel-8	C01	UEs supporting E-UTRA and UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			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 and NOT Category M1	pc_eFDD		Note 3	Rel-8 UTRA FDD
					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 and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
					pc_eTDD			
8.1.3.9	RRC connection release / Redirection from E-UTRAN to CDMA2000-HRPD	Rel-8	C06	UEs supporting E-UTRA and HRPD and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.1.3.10	RRC connection release / Redirection from E-UTRAN to CDMA2000-1xRTT	Rel-8	C07	UEs supporting E-UTRA and 1xRTT and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	pc_eFDD		Note 3	
					pc_eTDD			
8.1.3.11a	RRC connection release / Redirection to another E-UTRAN band / Between FDD and TDD	Rel-9	C142a	UEs supporting E-UTRA FDD and E-UTRA TDD and NOT Category M1			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 and NOT Category M1	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	C142a	UEs supporting E-UTRA FDD and E-UTRA TDD and NOT Category M1			Note 3	
8.1.3.12b	RRC connection release / Success / With priority information / Inter-band (Single frequency operation in source band)	Rel-9	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD		Note 3Either 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	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			
8.2.1.7	RRC connection reconfiguration / Radio bearer establishment / Success / SRB2	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 reconfiguration / Success	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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			
					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			
					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			
					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			
8.2.2.5a1.	CA / RRC connection reconfiguration / SCell addition without UL / SRS configuration / Periodic / multi-SRS switching	Rel-14	C320	UEs supporting E-UTRA FDD-TDD DL CA and SRS switching between a band pair.	pc_eFDD			
			C321	UEs supporting E-UTRA TDD-TDD DL CA and SRS switching between a band pair.	pc_eTDD			
8.2.2.5a.2		Rel-14	C320	UEs supporting E-UTRA FDD-TDD DL CA and SRS switching between a band pair.	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
	CA / RRC connection reconfiguration / TDD SCell addition without UL / SRS configuration / Aperiodic		C321	UEs supporting E-UTRA TDD-TDD DL CA and SRS switching between a band pair.	pc_eTDD			
8.2.2.5a.3	CA / RRC connection reconfiguration / TDD SCell addition without UL / SRS configuration / Collision handling / Priority	Rel-14	C320	UEs supporting E-UTRA FDD-TDD DL CA and SRS switching between a band pair.	pc_eFDD			
			C321	UEs supporting E-UTRA TDD-TDD DL CA and SRS switching between a band pair.	pc_eTDD			
8.2.2.5a.4	CA / RRC connection reconfiguration / TDD SCell addition without UL / SRS configuration / Collision handling / flexible SRS transmitting	Rel-14	C320	UEs supporting E-UTRA FDD-TDD DL CA and SRS switching between a band pair.	pc_eFDD			
			C321	UEs supporting E-UTRA TDD-TDD DL CA and SRS switching between a band pair.	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			
					pc_eTDD			
8.2.2.6.2	RRC connection reconfiguration/ UE Assistance Information/power preference indication release on connection re-establishment	Rel-11	C 187	UEs supporting E-UTRA and Power Preference Indication	pc_eFDD			
					pc_eTDD			
8.2.2.6.3	RRC connection reconfiguration/ UE Assistance Information/T340 running	Rel-11	C187	UEs supporting E-UTRA and Power Preference Indication	pc_eFDD			
					pc_eTDD			
8.2.2.6.6	RRC connection reconfiguration/ UE Assistance Information/ maximum PDSCH/PUSCH bandwidth preference	Rel-14	C323	FFS	pc_eFDD			
					pc_eTDD			
8.2.2.7.1	CA / RRC connection reconfiguration / sTAG addition/modification/release / Success / 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			
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 and UL (Pcell) supported in each band of Inter-band CA combination under test	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	C268	UEs supporting E-UTRA and Support of CRS interference handling and Synchronisation signal and common channel interference handling	pc_eFDD			
					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			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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			
8.2.2.9.3	RRC connection reconfiguration / SCG change without handover / SCG DRB to MCG DRB and SCG DRB modification	Rel-12	C245	UEs supporting E-UTRA and DC SCG DRB	pc_eFDD			
					pc_eTDD			
8.2.2.9.4	Void							
8.2.2.9.5	Void							
8.2.2.10	eIMTA / RRC connection reconfiguration / Radio resource reconfiguration / Success	Rel-12	C256	UEs supporting E-UTRA and eIMTA and NOT Category M1	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	C12	UEs supporting E-UTRA or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A)	pc_eFDD			
					pc_eTDD			
8.2.4.2	RRC connection reconfiguration / Handover / Success / Common preamble	Rel-8	C12	UEs supporting E-UTRA or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A)	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	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
8.2.4.5	RRC connection reconfiguration / Handover / All parameters included	Rel-8	C12	UEs supporting E-UTRA or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A)	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 and NOT Category M1	pc_eFDD			
			C21T		pc_eTDD			
8.2.4.7	RRC connection reconfiguration / Handover / Failure / Re-establishment successful	Rel-8	C12	UEs supporting E-UTRA or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A)	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			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	C12	UEs supporting E-UTRA or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A)	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 and NOT Category M1	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 and NOT Category M1				
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)	pc_eFDD			
					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 and NOT Category M1	pc_eFDD		Note 3	
			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 and NOT Category M1			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 and NOT Category M1	pc_eFDD		Note 3	
			C185T		pc_eTDD			
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 and NOT Category M1			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 and NOT Category M1	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			Note 3	

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
				Feature Group Indicator 25 and TDD Feature Group Indicator 30 and NOT Category M1				
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			
					pc_eTDD			
8.2.4.16.2	CA / RRC connection reconfiguration / Setup and Change of MIMO / Inter-band CA	Rel-10	C177	UEs supporting E-UTRA and Inter-band Carrier Aggregation and does not support Category 1	pc_eFDD			
					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 / 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			
8.2.4.19.1	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	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
8.2.4.20.1	CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band Contiguous CA	Rel-10	C132	UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation	pc_eFDD			
					pc_eTDD			
8.2.4.20.2	CA / RRC connection reconfiguration / Handover / Success / Scell Change / 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			
8.2.4.20.3	CA / RRC connection reconfiguration / Handover / Success / Scell Change Intra-band non-Contiguous CA	Rel-11	C132a	UEs supporting E-UTRA and Downlink Intra-band non-contiguous Carrier Aggregation	pc_eFDD			
					pc_eTDD			
8.2.4.21.1	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			
					pc_eTDD			
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			
					pc_eTDD			
8.2.4.25.1	RRC connection reconfiguration / Intra-MeNB Handover / MCG DRB to MCG DRB and MCG 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 Handover / MCG DRBs to/from Split DRB	Rel-12	C246	UEs supporting E-UTRA and DC Split DRB and DC SCG DRB	pc_eFDD			
					pc_eTDD			
8.2.4.25.3	RRC connection reconfiguration / Intra-MeNB Handover / Split DRB to Split DRB	Rel-12	C244	UEs supporting E-UTRA and DC Split DRB	pc_eFDD			
					pc_eTDD			
8.2.4.25.4	RRC connection reconfiguration / Handover with SCG release / MCG/SCG DRBs to MCG DRB	Rel-12	C245	UEs supporting E-UTRA and DC SCG DRB	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
					pc_eTDD			
8.2.4.25.5	RRC connection reconfiguration / Handover with SCG release / Split DRB to MCG DRB	Rel-12	C244	UEs supporting E-UTRA and DC Split DRB	pc_eFDD			
					pc_eTDD			
8.2.4.25.6	RRC connection reconfiguration / Handover with SCG reconfiguration / SCG DRB to SCG DRB	Rel-12	C245	UEs supporting E-UTRA and DC SCG DRB	pc_eFDD			
					pc_eTDD			
8.2.4.25.7	RRC connection reconfiguration / Handover with SCG reconfiguration / Split DRB to Split DRB	Rel-12	C244	UEs supporting E-UTRA and DC Split DRB	pc_eFDD			
					pc_eTDD			
8.2.4.26	eIMTA / RRC connection reconfiguration / Handover / Success	Rel-12	C256	UEs supporting E-UTRA and eIMTA and NOT Category M1	pc_eTDD			
8.2.4.27	RRC connection reconfiguration / Handover / Success / Intra-frequency in Enhanced Coverage	Rel-13	C254c	UEs supporting E-UTRA and CE mode A and eventA3 for intra-frequency neighbouring cells in normal coverage and intra-frequency handover to target cell in normal coverage	pc_eFDD			
					pc_eTDD			
8.2.4.28	eCall Only mode / RRC connection reconfiguration / Inter-frequency Handover / Success	Rel-14	C314a	UEs supporting E-UTRA and IMS eCall and eCall only and Automatic type of eCall initiation	pc_eFDD			
					pc_eTDD			
8.2.5.1	LWA / WLAN Release / WLAN Association / EUTRA RRC_Connected to WLAN (Event W2)	Rel-13	C267	UEs supporting E-UTRA and LWA	pc_eFDD			
					pc_eTDD			
8.2.5.2	LWA / WLAN Release Success / EUTRA RRC_Connected from WLAN (Event W3)	Rel-13	C267	UEs supporting E-UTRA and LWA	pc_eFDD			
					pc_eTDD			
8.2.5.4	LWA / WLAN Association Success / EUTRA RRC_Connected to WLAN (Event W1)	Rel-13	C267	UEs supporting E-UTRA and LWA	pc_eFDD			
					pc_eTDD			
8.2.5.5	LWIP / WLAN Association Success / EUTRA RRC_Connected to WLAN (Event W1)	Rel-13	C274	UEs supporting E-UTRA and LWIP	pc_eFDD			
					pc_eTDD			
8.2.5.6	LWIP / WLAN Release / WLAN Association / EUTRA RRC_Connected to WLAN (Event W2)	Rel-13	C274	UEs supporting E-UTRA and LWIP	pc_eFDD			
					pc_eTDD			
8.2.5.7	LWIP / WLAN Release Success / EUTRA RRC_Connected from WLAN (Event W3)	Rel-13	C274	UEs supporting E-UTRA and LWIP	pc_eFDD			
					pc_eTDD			
8.2.5.8	LWA / T351 Expiry	Rel-13	C267	UEs supporting E-UTRA and LWA	pc_eFDD			
					pc_eTDD			
8.3.1.1	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A1	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
8.3.1.3	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous events A3 (intra and inter-frequency measurements)	Rel-8	C09F	UEs supporting E-UTRA and Feature Group Indicator 25 or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and Feature Group Indicator 25)	pc_eFDD			
			C09T		pc_eTDD			
8.3.1.3a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous events A3 (intra and inter-frequency measurements) / RSRQ based measurements	Rel-9	C09F	UEs supporting E-UTRA and Feature Group Indicator 25 or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and Feature Group Indicator 25)	pc_eFDD		Note 3	
			C09T		pc_eTDD			
8.3.1.4	Measurement configuration control and reporting / Intra E-UTRAN measurements / Periodic reporting (intra and inter-frequency measurements)	Rel-8	C11F	UEs supporting E-UTRA and Feature Group Indicator 16 and Feature Group Indicator 25 or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and Feature Group Indicator 25)	pc_eFDD			
			C11T		pc_eTDD			
8.3.1.5	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two simultaneous event A3 (intra-frequency measurements)	Rel-8	C18	UEs supporting E-UTRA or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage and CE Mode A)	pc_eFDD			
					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	C09F	UEs supporting E-UTRA and Feature Group Indicator 25 or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage and CE Mode A and Feature Group Indicator 25)	pc_eFDD			
			C09T		pc_eTDD			
8.3.1.7	Measurement configuration control and reporting / Intra E-UTRAN measurements / Blacklisting	Rel-8	C12	UEs supporting E-UTRA or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A)	pc_eFDD			
					pc_eTDD			
8.3.1.8	Measurement configuration control and reporting / Intra E-UTRAN measurements / Handover / IE measurement configuration present	Rel-8	C12	UEs supporting E-UTRA or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A)	pc_eFDD			
					pc_eTDD			
8.3.1.9	Measurement configuration control and reporting / Intra E-UTRAN measurements / Intra-frequency handover / IE measurement configuration not present	Rel-8	C12	UEs supporting E-UTRA or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A)	pc_eFDD		Either TC 8.3.1.9 or TC 8.3.1.9a shall be executed. (Note 4)	
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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	C12	UEs supporting E-UTRA or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A) 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)	
					pc_eTDD			
8.3.1.10	Measurement configuration control and reporting / Intra E-UTRAN measurements / Inter-frequency handover / IE measurement configuration not present	Rel-8	C28F	UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A and Feature Group Indicator 25)	pc_eFDD			
			C28T		pc_eTDD			
8.3.1.11	Measurement configuration control and reporting / Intra E-UTRAN measurements / Continuation of the measurements after RRC connection re-establishment	Rel-8	C12	UEs supporting E-UTRA or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A)	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	C12	UEs supporting E-UTRA or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A). 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)	
					pc_eTDD			
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 or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A 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 and NOT Category M1			Note 3	

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A and Feature Group Indicator 25) and more than 1 FDD or TDD E-UTRA band	pc_eFDD		Note 3	
			C186T		pc_eTDD			
8.3.1.13a	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 and NOT Category M1			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 or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A 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 and NOT Category M1			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	C45F	UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A and Feature Group Indicator 25) and more than 1 FDD or TDD E-UTRA band	pc_eFDD		Note 3	
			C45T		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 and NOT Category M1			Note 3	
8.3.1.16	Measurement configuration control and reporting / Intra E-UTRAN measurements / Continuation of the measurements after RRC connection re-establishment / Inter-band	Rel-9	C186F	UEs supporting E-UTRA and Feature Group Indicator 25 or (CE Mode A and eventA3 for intra-frequency neighbouring cells in normal coverage CE Mode A and intra-frequency handover to target cell in normal coverage and CE Mode A and Feature Group Indicator 25) and more than 1 FDD or TDD E-UTRA band	pc_eFDD		Note 3	
			C186T		pc_eTDD			
8.3.1.16a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Continuation of the measurements after RRC connection re-	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			Note 3	

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
	establishment / Inter-band / Between FDD and TDD			Feature Group Indicator 25 and TDD Feature Group Indicator 30				
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			
8.3.1.17.3	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							
8.3.1.21	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			

Clause	TC Title	Release	Applicability		Additional Information			
			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			
					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-UTRA and Feature Group Indicator 14	pc_eFDD		Note3	
			C166T		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 and NOT Category M1	pc_eFDD		Note3	
			C167T		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 and NOT Category M1	pc_eFDD		Note3	
			C167T		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			
			C154T		pc_eTDD			
8.3.1.29	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event C1	Rel-12	C251	UEs supporting E-UTRA and CSI-RS based discovery signals measurement and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.3.1.30	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event C2	Rel-12	C251	UEs supporting E-UTRA and CSI-RS based discovery signals measurement and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.3.1.31	Measurement configuration control and reporting / Intra E-UTRAN measurements / Periodic reporting / CSI-RSRP	Rel-12	C251	UEs supporting E-UTRA and CSI-RS based discovery signals measurement and NOT Category M1	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
8.3.1.32	LAA / Measurement configuration control and reporting / Intra E-UTRAN measurements / RSSI Measurement	Rel-13	C279	UEs supporting E-UTRA and downlink LAA and RSSI measurement	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			
			C90T		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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
			C91T		pc_eTDD			Rel-9 UTRA TDD
8.3.2.3a	Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of UTRAN cells / RSRQ based measurements	Rel-9	C91F	UEs supporting E-UTRA and UTRA and Feature Group Indicator 22 and NOT Category M1	pc_eFDD		Note 3	Rel-8 UTRA FDD
			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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
			C93T		pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
8.3.2.10	Measurement configuration control and reporting / Inter-RAT 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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
			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 and NOT Category M1	pc_eFDD			
			C44T		pc_eTDD			
8.3.3.5	Void							
8.3.4.1	Intra-frequency SI acquisition / CSG cell and non-CSG cell	Rel-9	C80a	UEs supporting E-UTRA and Reading the SI of the neighbouring Intra-frequency cell using autonomous gaps and reporting and allowed CSG list and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
			C118T		pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
			C36T		pc_eTDD			Rel-9 UTRA TDD
8.4.1.4	Inter-RAT handover / From E-UTRA to UTRA HSDPA / Data	Rel-8	C36F	UEs supporting E-UTRA and UTRA and Feature Group Indicator 8 and Feature Group Indicator 22 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
			C117T		pc_eTDD			Rel-9 UTRA TDD
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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			Rel-8 UTRA FDD
			C155aT		pc_eTDD			Rel-9 UTRA TDD

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 and NOT Category M1	pc_eFDD			Rel-8 UTRA FDD
			C155bT		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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
			C38T		pc_eTDD			
8.4.4.1	Void							
8.4.4.2	Void							
8.4.4.3	Void							
8.4.5.4	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 and NOT Category M1	pc_eFDD			
			C42T		pc_eTDD			
8.4.7.1	Void							
8.4.7.3	Void							
8.4.7.4	Void							
8.4.7.5	Void							
8.4.7.6	Void							
8.4.7.7	Void							
8.4.7.8	Void							
8.4.7.9	Void							
8.4.7.10	Void							
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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
8.4.8.4	WLAN Offload / Offload Success / EUTRA RRC_Connected to/from WLAN (Qqualmeas, BackhaulRateDlWLAN) / CA	Rel-12	C225a	UEs supporting E-UTRA with Carrier Aggregation and WLAN and allowed offload to and from WLAN and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	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 and NOT Category M1	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	Radio link failure / T301 expiry	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
8.5.1.3	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			
8.5.1.8.1	Radio link failure on PSCell / UE supports SCG DRB	Rel-12	C245	UEs supporting E-UTRA and DC SCG DRB	pc_eFDD			
					pc_eTDD			
8.5.1.8.2	Radio link failure on PSCell / UE supports Split DRB	Rel-12	C244	UEs supporting E-UTRA and DC Split DRB	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			Rel-9 UTRA TDD

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
8.5.4.1	UE capability transfer / Success	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
8.5.4.2	Network-requested CA Band Combination Capability Signalling / Number of UE supported CA band combinations less than or equal to 128	Rel-11	C221	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 less than or equal to 128 CA band combinations.	pc_eFDD			
					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			
					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			
					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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.6.1.3	Immediate MDT / Measurement / Latency metrics for UL PDCP Packet Delay per QCI	Rel-13	C282	UEs supporting E-UTRA and PDCP Packet Delay per QCI	pc_eFDD			
					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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.6.2.9	Logged MDT / Location information	Rel-10	C203a	UEs supporting E-UTRA and measurements in RRC_IDLE and standalone GNSS receiver to provide detailed location information and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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	pc_eFDD			Rel-8 GERAN

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
				PS handover to E-UTRA from GSM and NOT Category M1				
					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 and NOT Category M1	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 and NOT Category M1	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	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.6.4.2	Radio Link Failure logging / Reporting of Inter-frequency measurements	Rel-10	C10F C10T	UEs supporting E-UTRA and Feature Group Indicator 25 and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.6.4.3	Radio Link Failure logging / Reporting at RRC connection establishment and reestablishment	Rel-10	C224c	UEs supporting E-UTRA and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.6.4.5	Radio Link Failure logging / Reporting of ECGI of the PCell	Rel-10	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
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 and NOT Category M1	pc_eTDD			
					pc_eFDD			
8.6.4.8	Radio Link Failure logging / Logging and reporting / Reporting at RRC connection establishment / PLMN list	Rel-11	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.6.4.9	Radio Link Failure logging / Logging and reporting / Reporting at intra LTE handover / PLMN list	Rel-11	C224c	UEs supporting E-UTRA and NOT Category M1	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	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.6.4.11	Radio Link Failure logging / Logging and reporting / Dropped QCI	Rel-13	C270	UEs supporting E-UTRA and QCI1 indication in Radio Link Failure Report				

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 and NOT Category M1	pc_eFDD			Rel-8 UTRA FDD
					pc_eTDD			Rel-9 UTRA TDD
8.6.5.1a	Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover / PLMN list	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.6.5.4	Void							
8.6.6.1	Handover Failure logging / Reporting of Intra-frequency measurements	Rel-10	C224c	UEs supporting E-UTRA and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eTDD			
					pc_eFDD			
8.6.6.5	Handover Failure logging / Logging and reporting / Reporting at RRC connection establishment / PLMN list	Rel-11	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.6.6.6	Handover Failure logging / Logging and reporting / Reporting at intra LTE handover / PLMN list	Rel-11	C21F	UEs supporting E-UTRA and Feature Group Indicator 13 and Feature Group Indicator 25 and NOT Category M1	pc_eFDD			
			C21T		pc_eTDD			
8.6.6.7	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 and NOT Category M1	pc_eFDD			
			C10T		pc_eTDD			
8.6.7.1	Handover Failure logging / Reporting of UTRAN Inter-RAT measurements	Rel-10	C01	UEs supporting E-UTRA and UTRA and NOT Category M1	pc_eFDD			Rel-8 UTRA FDD
					pc_eTDD			Rel-9 UTRA TDD
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 and NOT Category M1	pc_eFDD			Rel-8 GERAN
			C90T		pc_eTDD			Rel-8 GERAN

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
8.6.7.3	Handover Failure logging / Reporting of CDMA2000 Inter-RAT measurements	Rel-10	C06	UEs supporting E-UTRA and HRPD and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			Rel-8 UTRA FDD
					pc_eTDD			Rel-9 UTRA TDD
8.6.8.1	Connection Establishment Failure logging / Logging and reporting / T300 expiry	Rel-11	C224c	UEs supporting E-UTRA and NOT Category M1	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 and NOT Category M1	pc_eFDD			
			C21T		pc_eTDD			
8.6.8.3	Connection Establishment Failure logging / Logging and reporting / Reporting at RRC connection re-establishment	Rel-11	C224c	UEs supporting E-UTRA and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.6.8.5	Connection Establishment Failure logging / Logging and reporting / Reporting of Intra-frequency measurements	Rel-11	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
8.6.8.6	Connection Establishment Failure logging / Logging and reporting / Reporting of Inter-frequency measurements	Rel-11	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
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 and NOT Category M1	pc_eFDD			Rel-8 UTRA FDD
					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 and NOT Category M1	pc_eFDD			Rel-8 UTRA FDD
					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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 and NOT Category M1	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 and NOT Category M1	pc_eFDD		Note 7	
					pc_eTDD			
8.7.1	Inter-RAT / UTRAN ANR measurement, logging and reporting / E-UTRAN cell	Rel-10	C145	UEs supporting E-UTRA and supporting UTRAN ANR and NOT Category M1	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 code failure	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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			
					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			
					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			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 Procedure / 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 Procedure / 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			
9.2.1.1.2	Attach Procedure / Success / With IMSI, GUTI reallocation	Rel-8	C04	UEs supporting E-UTRA and EPS attach (with or without pre-configuration)	pc_eFDD			
					pc_eTDD			
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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
9.2.1.1.5	Void							
9.2.1.1.7	Attach Procedure / 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 Procedure / 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			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
9.2.1.1.7b	Attach / Success / native GUMMEI	Rel-10	C04	UEs supporting E-UTRA and EPS attach (with or without pre-configuration)	pc_eFDD			
					pc_eTDD			
9.2.1.1.7c	Attach / Success / PSM	Rel-12	C247	UEs supporting E-UTRA and EPS attach (with or without pre-configuration) and Power Saving Mode	pc_eFDD		Note 17	
					pc_eTDD			
9.2.1.1.7d	Attach / Success / DCN	Rel-14	C04	UEs supporting E-UTRA and EPS attach (with or without pre-configuration)	pc_eFDD			
					pc_eTDD			
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_SinglePLMN_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_SinglePLMN_Tested	1 Execution (Note 1)	
					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			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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)	
					pc_eTDD			
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	C286	UEs supporting E-UTRA and allowed CSG list and EPS attach (with or without pre-configuration) and NOT Category M1	pc_eFDD			
					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			
9.2.1.1.20	Attach / Abnormal case / Access barred because of access class barring or NAS signalling connection establishment rejected by the network	Rel-8	C04	UEs supporting E-UTRA and EPS attach (with or without pre-configuration)	pc_eFDD			
					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			
9.2.1.1.23	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			
9.2.1.1.24	Attach / Abnormal case / Change of cell into a new tracking area	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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			
9.2.1.1.27	Attach / Abnormal case / Network reject with Extended Wait Timer	Rel-10	C250	UEs supporting E-UTRA and LAP and EPS attach (with or without pre-configuration)	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
9.2.1.1.27a	Attach Procedure / EAB broadcast handling / ExtendedAccessBarring configured in the UE	Rel-11	C261	UEs supporting E-UTRA and EAB and LAP and EPS attach (with or without pre-configuration)	pc_eFDD			
					pc_eTDD			
9.2.1.1.28	Attach / Success / IMS	Rel-8	C210	UEs supporting E-UTRA and VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS" and UE Configured with IMS APN as default APN or to provide IMS APN.	pc_eFDD			
					pc_eTDD			
9.2.1.1.28a	Attach / Success / IMS / Second PDN	Rel-8	C211	UEs supporting E-UTRA and VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS" and UE Configured to provide IMS APN as the second PDN connection.	pc_eFDD			
					pc_eTDD			
9.2.1.1.29	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	Void							
9.2.1.2.1	Combined attach procedure / Success / EPS and non-EPS services	Rel-8	C02a	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	pc_eFDD, pc_UTRA, pc_GERAN	px_RATComb_ Tested	1 or 2 Executions (Note 2 AND Note 6)	
					pc_eTDD, pc_UTRA, pc_GERAN			Rel-9 UTRA TDD
9.2.1.2.1c	Combined attach procedure / Success / EPS and CS Fallback not preferred	Rel-8	C86a	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) and NOT Category M1	pc_eFDD			
					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	C87b	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) and NOT Category M1	pc_eFDD			
					pc_eTDD			Rel-9 UTRA TDD
9.2.1.2.2	Combined attach procedure / 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			
9.2.1.2.3	Successful combined attach procedure / EPS services only / MSC temporarily not reachable	Rel-8	C02a	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and NOT Category M1	pc_eFDD			
					pc_eTDD			
9.2.1.2.4	Successful combined attach procedure / EPS services only / CS domain not available	Rel-8	C125	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
				configuration) and (CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support) and NOT Category M1				
					pc_eTDD			
9.2.1.2.4a	Successful combined attach procedure / EPS service only / Congestion	Rel-11	C02a	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and NOT Category M1	pc_eFDD			
					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) and NOT Category M1	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) and NOT Category M1	pc_eFDD, pc_UTRA, pc_GERAN	px_RATComb_ Tested	1 Execution (Note 2)	
					pc_eTDD, pc_UTRA, pc_GERAN			Rel-9 UTRA TDD
9.2.1.2.7	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) and NOT Category M1	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) and NOT Category M1	pc_eFDD, pc_UTRA, pc_GERAN	px_RATComb_ Tested	1 Execution (Note 2)	
					pc_eTDD, pc_UTRA, pc_GERAN			Rel-9 UTRA TDD
9.2.1.2.9	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) and NOT Category M1	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	C02a	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and NOT Category M1	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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) and NOT Category M1	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	C02a	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and NOT Category M1	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) and NOT Category M1	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) and NOT Category M1	pc_eFDD			
					pc_eTDD			
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) and NOT Category M1	pc_eFDD, pc_UTRA, pc_GERAN	px_RATComb_Tested	1 Execution (Note 2)	
					pc_eTDD, pc_UTRA, pc_GERAN			Rel-9 UTRA TDD
9.2.2.1.1	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_Removal			
					pc_eTDD, pc_USIM_Removal			
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 and NOT Category M1	pc_eFDD, pc_UTRA, pc_GERAN pc_EPS_Disable, pc_Dynamic_GERAN_Rel_downgrade	px_RATComb_Tested	1 Execution (Note 2)	
					pc_eTDD. pc_UTRA, pc_GERAN			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
					pc_EPS_Disable			
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_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			
					pc_eTDD			
9.2.2.1.7	UE initiated detach / Abnormal case / Detach procedure collision	Rel-8	R	UEs supporting E-UTRA	pc_eFDD, pc_Re_Attach_AfterDetachColl			
					pc_eTDD, pc_Re_Attach_AfterDetachColl			
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_eFDD			
					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			
					pc_eTDD			
9.2.2.1.10	UE initiated detach / Mapped security context	Rel-8	C01	UEs supporting E-UTRA and UTRA and NOT Category M1	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			
					pc_eTDD			
9.2.2.2.2	NW initiated detach / IMSI detach	Rel-8	C02a	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and NOT Category M1	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			
9.2.3.1.1a	Normal tracking area update / Accepted / PSM	Rel-12	C247	UEs supporting E-UTRA and EPS attach (with or without pre-configuration) and Power Saving Mode	pc_eFDD		Note 17	
					pc_eTDD			
9.2.3.1.1b	Normal tracking area update / Accepted / DCN	Rel-14	C04	UEs supporting E-UTRA and EPS attach (with or without pre-configuration)	pc_eFDD			
					pc_eTDD			
9.2.3.1.2	Void							

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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			
					pc_eTDD			
9.2.3.1.5	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			
9.2.3.1.5b	Periodic tracking area update / Accepted / PSM / T3412 Extended Value	Rel-12	C247	UEs supporting E-UTRA and EPS attach (with or without pre-configuration) and Power Saving Mode	pc_eFDD		Note 17	
					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 and NOT Category M1	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			
					pc_eTDD			
9.2.3.1.8a	Normal tracking area update / low priority override	Rel-11	C195	UEs supporting E-UTRA and LAP and LAP override and EPS attach (with or without pre-configuration)	pc_eFDD			
					pc_eTDD			
9.2.3.1.8b	Normal tracking area update / EAB broadcast handling / ExtendedAccessBarring configured in the UE / ExtendedAccessBarring and Override_ExtendedAccessBarring configured in the UE	Rel-11	C197	UEs supporting E-UTRA and EAB and EAB override and LAP and EPS attach (with or without pre-configuration)	pc_eFDD			
					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 and NOT Category M1	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			
					pc_eTDD			
9.2.3.1.10	Normal tracking area update / Rejected / IMSI invalid	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_SinglePLMN_Tested	1 Execution (Note 1)	

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
					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			
					pc_eTDD			
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_eFDD			
					pc_eTDD			
9.2.3.1.17	Normal tracking area update / 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, pc_UTRA, pc_GERAN	px_RATComb_Tested, px_SinglePLMN_Tested	1 Execution (Note 1)	
					pc_eTDD, pc_UTRA, pc_GERAN			Rel-9 UTRA TDD

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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
9.2.3.1.18a	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_eFDD			
					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			
					pc_eTDD			
9.2.3.1.20a	Normal tracking area update / Rejected / Congestion	Rel-10	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
9.2.3.1.22	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 / TA does not belong to TAI list	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
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			
9.2.3.1.26	Normal tracking area update / Abnormal case / TRACKING AREA UPDATE REJECT	Rel-8	C04	UEs supporting E-UTRA and EPS attach (with or without configuration)	pc_eFDD			
					pc_eTDD			
9.2.3.1.27	Normal tracking area update / Abnormal case / Change of cell into a new tracking area	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
9.2.3.1.28	Normal tracking area update / Abnormal case / Tracking area updating and detach procedure collision	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
9.2.3.2.1	Combined tracking area update / Successful	Rel-8	C02a	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and NOT Category M1	pc_eFDD			
					pc_eTDD			
9.2.3.2.1a	Combined tracking area update / Successful / Check of last visited TAI and handling of TAI list, LAI and TMSI	Rel-8	C121	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			Rel-9 UTRA TDD
9.2.3.2.1b	Combined tracking area update / Success / SMS only	Rel-8	C128	UEs supporting E-UTRA and UTRA or/and E-UTRA and GERAN, and combined EPS/IMSI attach and NOT Category M1	pc_eFDD, pc_UTRA, pc_GERAN	px_RATComb_Tested	1 or 2 Executions (Note 2 AND Note 6)	
					pc_eTDD, pc_UTRA, pc_GERAN			Rel-9 UTRA TDD
9.2.3.2.1c	Combined tracking area update / Success / CS Fallback not preferred	Rel-8	C287	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) and NOT Category M1	pc_eFDD			
					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	C02a	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and NOT Category M1	pc_eFDD			
					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) and NOT Category M1	pc_eFDD, pc_UTRA, pc_GERAN	px_RATComb_Tested	1 or 2 Executions (Note 2 AND Note 6)	
					pc_eTDD, pc_UTRA, 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 pre-configuration) and (CS/PS Mode 2 or CS/PS Mode 1 with IMS Voice Support and NOT Category M1	pc_eFDD			
					pc_eTDD			
9.2.3.2.4a	Combined tracking area update / Successful for EPS services only / Congestion	Rel-11	C02a	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and NOT Category M1	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
9.2.3.2.5	Combined tracking area update / 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) and NOT Category M1	pc_eFDD, pc_UTRA, pc_GERAN	px_RATComb_Tested	1 Execution (Note 2)	
					pc_eTDD, pc_UTRA, pc_GERAN			Rel-9 UTRA TDD
9.2.3.2.6	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) and NOT Category M1	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) and NOT Category M1	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) and NOT Category M1	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) and NOT Category M1	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	C02a	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and NOT Category M1	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) and NOT Category M1	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	C02a	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and NOT Category M1	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
					pc_eTDD			
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) and NOT Category M1	pc_eFDD, pc_UTRA, pc_GERAN	px_RATComb_Tested	1 Execution (Note 2),	
					pc_eTDD, pc_UTRA, pc_GERAN			Rel-9 UTRA TDD
9.2.3.2.14	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) and NOT Category M1	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	C02a	UEs supporting E-UTRA and combined EPS/IMSI attach (with or without pre-configuration) and NOT Category M1	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) and NOT Category M1	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) and NOT Category M1	pc_eFDD			
					pc_eTDD			
9.2.3.3.1	First Iu mode to S1 mode inter-system change after attach	Rel-8	C01	UEs supporting E-UTRA and UTRA and NOT Category M1	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 and NOT Category M1	pc_eFDD		1 Execution (Note 5)	
					pc_eTDD			Rel-9 UTRA TDD
9.2.3.3.3	Iu 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 and NOT Category M1	pc_eFDD			
					pc_eTDD			Rel-9 UTRA TDD
9.2.3.3.4	First S1 mode to Iu mode inter-system change after attach	Rel-8	C01	UEs supporting E-UTRA and UTRA and NOT Category M1	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-UTRA and GERAN, and, ISR and NOT Category M1	pc_eFDD, pc_UTRA, pc_GERAN	px_RATComb_Tested	1 Execution (Note 2)	

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
					pc_eTDD, pc_UTRA, pc_GERAN			Rel-9 UTRA TDD
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) and NOT Category M1	pc_eFDD, pc_UTRA, pc_GERAN	px_RATComb_Tested	1 Execution (Note 2)	
					pc_eTDD, pc_UTRA, pc_GERAN			Rel-9 UTRA TDD
9.2.3.3.6	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
9.2.4.1.1	Attach & Normal tracking area update Procedure / Success / without Idle eDRX parameters / With Idle eDRX parameters	Rel-13	C262	UEs supporting E-UTRA and Extended DRX	pc_eFDD			
					pc_eTDD			
9.2.4.1.2	Attach & Normal tracking area update Procedure / Success / With and without Idle eDRX and PSM parameters	Rel-13	C253	UEs supporting E-UTRA and Extended DRX and Power Saving Mode	pc_eFDD			
					pc_eTDD			
9.2.4.1.3	Attach & Normal tracking area Procedure / Success / Emergency Calls/ without Idle eDRX parameters / With Idle eDRX parameters	Rel-13	C263	UEs supporting E-UTRA and Extended DRX and IMS emergency call	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			
					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 and NOT Category M1	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_Tested	1 Execution (Note 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			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
9.3.1.12a	Extended service request / Rejected / CS domain temporarily not available	Rel-8	C26	UEs supporting E-UTRA and CS fallback and NOT Category M1	pc_eFDD			
					pc_eTDD			
9.3.1.15	Void							
9.3.1.16	Service request / Abnormal case / Switch off	Rel-8	C283	UEs supporting E-UTRA and switch on/off and NOT supporting IMS	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
9.3.2.2a	Paging for CS fallback / Connected mode	Rel-8	C26	UEs supporting E-UTRA and CS fallback and NOT Category M1	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 NAS integrity algorithm / AES	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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			
					pc_eTDD			
10.4.1	EPS bearer context deactivation / Success	Rel-8	C97	UEs supporting E-UTRA and Multiple PDN	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
10.4.2	EPS bearer context deactivation / Re-establishment	Rel-8	C209	UEs supporting E-UTRA and VoLTE in GSMA 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_eFDD			
					pc_eTDD			
10.5.1	UE requested PDN connectivity 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 priority / T3396 override	Rel-11	C204	UEs supporting E-UTRA and Multiple PDN and LAP and LAP override	pc_eFDD			
					pc_eTDD			
10.5.1b	UE requested PDN connectivity accepted / Dual priority / T3346 override	Rel-11	C204	UEs supporting E-UTRA and Multiple PDN and LAP and LAP override	pc_eFDD			
					pc_eTDD			
10.5.2	Void							
10.5.3	UE requested PDN connectivity 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 / Network reject with Extended Wait Timer	Rel-10	C178	UEs supporting E-UTRA and LAP	pc_eFDD			
					pc_eTDD			
10.6.1	UE requested PDN disconnect procedure accepted by the network	Rel-8	C97A	UEs supporting E-UTRA and Multiple PDN and User initiated PDN disconnect	pc_eFDD			
					pc_eTDD			
10.6.2	Void							
10.7.1	UE requested bearer resource allocation accepted by the network / New EPS bearer context	Rel-8	C54	UEs supporting E-UTRA and ESM UE requested bearer resource allocation procedure	pc_eFDD			
					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			
					pc_eTDD			
10.7.5	UE requested bearer resource allocation / BEARER RESOURCE ALLOCATION REJECT message including cause #43 "invalid EPS bearer identity"	Rel-8	C98	UEs supporting E-UTRA and ESM UE requested bearer resource allocation procedure and Multiple PDN	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 "invalid EPS bearer identity"	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 / Expiry of timer T3481	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			
10.8.8	UE requested bearer resource modification / Dual priority / low priority override	Rel-11	C196	UEs supporting E-UTRA and ESM UE requested bearer resource modification procedure and UE requested modification of network allocated TFTs and LAP and LAP override	pc_eFDD			
					pc_eTDD			
10.9.1	UE routing of uplink packets	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			
11	**General Tests**							
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) and UE configured to not use SMS over IP and NOT Category M1	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
					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) and UE configured to not use SMS over IP and NOT Category M1	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) and UE configured to not use SMS over IP and NOT Category M1	pc_eFDD		Note 14	
					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) and UE configured to not use SMS over IP and NOT Category M1	pc_eFDD		Note 14	
					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 and UE configured to not use SMS over IP and NOT Category M1	pc_eFDD		Note 3, Note 14	
					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 and UE configured to not use SMS over IP and NOT Category M1	pc_eFDD		Note 3, Note 14	
					pc_eTDD			
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_DHCPv4_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 procedure without prior authentication / PDN connect / Service request / PDN disconnect / Detach upon UE switched off / Temporary storage of EMM information	Rel-9	C71a	UEs supporting E-UTRA and IMS emergency call and allowed CSG list and manual CSG selection and NOT Category M1	pc_eFDD			
					pc_eTDD			
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	Rel-9	C71	UEs supporting E-UTRA and IMS emergency call	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
	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							
					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 forbidden tracking areas	Rel-9	C71	UEs supporting E-UTRA and IMS emergency call	pc_eFDD			
					pc_eTDD			
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	C109a	UEs supporting E-UTRA and IMS emergency call and establishing the emergency call using the CS domain in UTRA or GERAN and NOT Category M1	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 and NOT Category M1	pc_eFDD		Either TC 11.2.8 or TC 11.2.8a shall be executed	
					pc_eTDD			
11.2.10	LIMITED-SERVICE / EPS does not support IMS Emergency / Emergency call using the CS domain	Rel-9	C71b	UEs supporting E-UTRA and UTRA and IMS emergency call and NOT Category M1	pc_eFDD			
					pc_eTDD			
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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
11.2.12	LIMITED-SERVICE / Inter-system mobility / E-UTRA to GSM CS / SRVCC Emergency Call Handover to GERAN	Rel-9	C231	UEs supporting E-UTRA and GERAN and SRVCC and IMS emergency call and NOT Category M1	pc_eFDD			
					pc_eTDD			
11.3	**eCall over IMS**							

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
11.3.1	eCall Only mode / T3444 / eCall inactivity procedure / Removal of eCall only restriction after an eCall over IMS	Rel-14	C314	UEs supporting E-UTRA and IMS eCall and eCall only and Manual type of eCall initiation	pc_eFDD			
					pc_eTDD			
11.3.2	eCall Only mode / T3445 / eCall inactivity procedure / Removal of eCall only restriction after a call to URI for test service	Rel-14	C315	UEs supporting E-UTRA and IMS eCall and eCall only and Manual type of eCall initiation and capable of triggering a Test eCall	pc_eFDD			
					pc_eTDD			
11.3.3	eCall capable / EPS supports IMS voice over PS session / EPS supports emergency service / eCall over IMS is not supported / eCall using the CS domain / emergency call over IMS if eCall using the CS domain is not available / UTRA or GERAN	Rel-14	C316	UEs supporting E-UTRA and UTRA or GERAN and IMS eCall and eCall Capable and Automatic type of eCall initiation and IMS emergency call	pc_eFDD			
					pc_eTDD			
11.3.4	eCall Only mode / EPS supports IMS voice over PS session / EPS does not support emergency service / eCall over IMS is not supported / eCall using CS domain / eCall failure if CS domain is not available	Rel-14	C317	UEs supporting E-UTRA and UTRA or GERAN and IMS eCall and eCall only and Automatic type of eCall initiation	pc_eFDD			
					pc_eTDD			
11.3.5	eCall Only mode / EPS supports IMS voice over PS session / EPS supports emergency service / eCall over IMS is supported / RACH failure in EUTRA cell / eCall using the CS domain	Rel-14	C317	UEs supporting E-UTRA and UTRA or GERAN and IMS eCall and eCall only and Automatic type of eCall initiation	pc_eFDD			
					pc_eTDD			
11.3.6	eCall Only mode / Limited service state / Call to URI for test service should not be attempted / eCall over IMS should be attempted	Rel-14	C315	UEs supporting E-UTRA and IMS eCall and eCall only and Manual type of eCall initiation and capable of triggering a Test eCall	pc_eFDD			
					pc_eTDD			
11.3.7	eCall Only mode / SRVCC Handover to CS domain / UTRAN / MSD Update / Success	Rel-14	C318	UEs supporting E-UTRA and UTRA and IMS eCall and eCall only and Manual type of eCall initiation	pc_eFDD			
					pc_eTDD			
11.3.8	eCall Only mode / SRVCC Handover to CS domain / GERAN / MSD Update / Success	Rel-14	C319	UEs supporting E-UTRA and GERAN and IMS eCall and eCall only and Manual type of eCall initiation	pc_eFDD			
					pc_eTDD			
12	**E-UTRA Radio Bearer Tests**							
12.2.1	Data transfer of E-UTRA radio bearer combinations 1, 3, 6 and 9	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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			
			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			
			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			
			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) and NOT Category M1	pc_eFDD			
					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	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
				Category 3 or UE Category 4 or UE Category 5) and NOT Category M1				
			C29T		pc_eTDD			
12.3.3	Data transfer of E-UTRA radio bearer combinations 5, 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) and NOT Category M1	pc_eFDD			
			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) and NOT Category M1	pc_eFDD			
			C30T		pc_eTDD			
13	**Multi-layer Procedures**							
13.1.1	Activation and deactivation of additional radio bearer in E-UTRA	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			
					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 *RRCConnectionRelease* upon redirection and speech and NOT Category M1	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 and NOT Category M1	pc_eFDD			
					pc_eTDD			Rel-9 UTRA TDD
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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
			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 and NOT Category M1	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
13.1.8	Call setup from E-UTRA RRC_CONNECTEDe/ CS fallback to GSM with redirection / MO call	Rel-8	C60	UEs supporting E-UTRA and GERAN and CS fallback and speech and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
			C96T		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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD			
			C105T		pc_eTDD			Rel-9 UTRA TDD
13.1.17	Void							
13.1.18	Void							
					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" and NOT Category M1	pc_eFDD			
					pc_eTDD			
13.1.20	Emergency call setup from E-UTRAN RRC_IDLE / IMS VoPS not 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	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
				GSMA PRD IR.92: "IMS Profile for Voice and SMS" and NOT Category M1				
					pc_eTDD			
13.1.21	Emergency Call setup from E-UTRA RRC_IDLE but IMS voice not available / IMS VoPS supported / EMC BS supported / UE performs emergency call via CS domain	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" and NOT Category M1	pc_eFDD			
					pc_eTDD			
13.2.1	RRC connection reconfiguration / E-UTRA to E-UTRA	Rel-8	R	UEs supporting E-UTRA	pc_eFDD			
					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			
					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			
					pc_eTDD			
13.3.1.3	RRC connection reconfiguration / Full configuration / DRB establishment	Rel-9	R	UEs supporting E-UTRA	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			
					pc_eTDD			Rel-9 UTRA TDD
13.3.2.2	Inter-system connection re-establishment / E-UTRAN to GPRS / Further data are to be transferred	Rel-8	C05	UEs Supporting E-UTRA and GERAN and NOT Category M1	pc_eFDD			
					pc_eTDD			
13.4.1.2	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 and NOT Category M1	pc_eFDD			
			C21T		pc_eTDD			
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 E-UTRA TDD and FDD Feature Group Indicator 25and FDD Feature Group Indicator 30 and TDD Feature Group Indicator 25 and TDD Feature Group Indicator 30 and NOT Category M1				
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 and NOT Category M1	pc_eFDD		Note 3	
			C185T		pc_eTDD			
13.4.1.5	RRC connection reconfiguration / Handover/ Full configuration / DRB establishment	Rel-9	R	UEs supporting E-UTRA	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 and NOT Category M1	pc_eFDD			
			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 and NOT Category M1	pc_eFDD			
			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 and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			
			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 and NOT Category M1	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 Indicator 9 and Feature Group Indicator 23 and SRVCC from E-UTRAN to GERAN/UTRAN and VoLTE in GSMA PRD	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
				IR.92: "IMS Profile for Voice and SMS" and NOT Category M1				
			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 and NOT Category M1	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" and NOT Category M1	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 and NOT Category M1	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			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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD		Note 3	Rel-8 UTRA FDD
			C159T		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 and NOT Category M1	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 and NOT Category M1	pc_eFDD		Note 3	Rel-8 UTRA FDD
			C161T		pc_eTDD			Rel-9 UTRA TDD

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD		Note 3	
			C199T		pc_eTDD			
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 and NOT Category M1	pc_eFDD		Note 3	
			C198T		pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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 VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS" AND aSRVCC and NOT Category M1	pc_eFDD		Note 3	
			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 and NOT Category M1	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 and NOT Category M1	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 and NOT Category M1	pc_eFDD		Note 3	
			C193T		pc_eTDD			
13.4.3.28	Inter-system mobility / E-UTRA voice to GERAN 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 and NOT Category M1	pc_eFDD		Note 3	
			C193T		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 and NOT Category M1	pc_eFDD		Note 3	
			C200T		pc_eTDD			
13.4.3.31	Inter-system mobility / GERAN CS voice to E-UTRA voice / rSRVCC	Rel-11	C219	UEs supporting E-UTRA and GERAN and IMS voice and rSRVCC and NOT Category M1	pc_eFDD			
					pc_eTDD			
13.4.3.32	Inter-system mobility / UTRA CS voice to E-UTRA voice / rSRVCC	Rel-11	C217	UEs supporting E-UTRA and UTRA and IMS voice and rSRVCC and NOT Category M1	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
					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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
13.4.3.34	Inter-system mobility / UTRA CS voice to E-UTRA voice / alerting / rSRVCC / MO call	Rel-11	C218	UEs supporting E-UTRA and UTRA and IMS voice and rSRVCC and rSRVCC in alerting state and NOT Category M1	pc_eFDD			
					pc_eTDD			
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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
13.4.3.36	Inter-system mobility / UTRA CS voice to E-UTRA voice / alerting / rSRVCC / MT call	Rel-11	C218	UEs supporting E-UTRA and UTRA and IMS voice and rSRVCC and rSRVCC in alerting state and NOT Category M1	pc_eFDD			
					pc_eTDD			
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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
13.4.3.38	Inter-system mobility / UTRA CS voice to E-UTRA voice / rSRVCC / HO cancelled	Rel-11	C217	UEs supporting E-UTRA and UTRA and IMS voice and rSRVCC and NOT Category M1	pc_eFDD			
					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 and NOT Category M1	pc_eFDD			
					pc_eTDD			
13.4.3.40	Inter-system 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 and NOT Category M1	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" and NOT Category M1	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	Void							
13.4.4.2	Void							
13.4.4.3	Inter-system session management / Multiple PDN connection establishment in eHRPD pre-registration state	Rel-9	C42F	UEs supporting E-UTRA and HRPD and Feature Group Indicator 12 and Feature Group Indicator 26 and NOT Category M1	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 and NOT Category M1	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
			C42T		pc_eTDD			
13.4.4.5	Void							
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 / 0% access probability for MTSI MO speech call	Rel-12	C236	UEs supporting E-UTRA and Initiating session and MTSI speech	pc_eFDD		Note 7	
					pc_eTDD			
13.5.1b	Void							
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 and NOT Category M1	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 and NOT Category M1	pc_eFDD		Note 7	
					pc_eTDD			
13.5.2b	Void							
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		Note 7	
					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 (PRD IR.92: "IMS Profile for Voice and SMS" or PRD NG.108: "IMS Profile for Voice and SMS for UE category M1")	pc_eFDD		Note 17	
					pc_eTDD			
13.5.5	MTSI MO video call / SCM / 0% access probability skip for MTSI MO video call	Rel-12	C223	UE supporting E-UTRA and MTSI Video call and NOT Category M1	pc_eFDD		Note 17	
					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 (PRD IR.92: "IMS Profile for Voice and SMS" or PRD NG.108: "IMS Profile for Voice and SMS for UE category M1")	pc_eFDD		Note 17	
					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							

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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			
15.2	Discovery of the Home Agent via DHCP	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			
15.6	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			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
					pc_eTDD			
17	**MBMS in LTE**							
17.1.1	MCCH information acquisition/ UE is switched on	Rel-9	C113	UEs supporting E-UTRA and MBMS	pc_eFDD			
					pc_eTDD			
17.1.2	MCCH information acquisition/ cell reselection to a cell in a new MBSFN area	Rel-9	C113	UEs supporting E-UTRA and MBMS	pc_eFDD			
					pc_eTDD			
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			
					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			
					pc_eTDD			
17.1.5	MCCH information acquisition/ UE is not receiving MBMS data	Rel-9	C113	UEs supporting E-UTRA and MBMS	pc_eFDD			
					pc_eTDD			
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			
					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			
					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			
					pc_eTDD			
17.2.4	Reception of PDCCH DCI format 0 and PHICH in MBSFN subframes	Rel-9	C224c	UEs supporting E-UTRA and NOT Category M1	pc_eFDD			
					pc_eTDD			
17.3.1	MBMS Counting / UE not receiving MBMS service	Rel-10	C113	UEs supporting E-UTRA and MBMS	pc_eFDD			
					pc_eTDD			
17.3.2	MBMS Counting / UE receiving MBMS service	Rel-10	C113	UEs supporting E-UTRA and MBMS	pc_eFDD			
					pc_eTDD			
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			
					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)	
					pc_eTDD			
17.4.2	Cell reselection to inter- frequency cell to start MBMS service reception	Rel-11	C113a	UEs supporting E-UTRA and MBMS and MBMS service continuity	pc_eFDD			
					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			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
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			
			C113bT		pc_eTDD			
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			
			C113bT		pc_eTDD			
17.4.4	Handover to intra-frequency cell to continue MBMS service reception	Rel-11	C113a	UEs supporting E-UTRA and MBMS and MBMS service continuity	pc_eFDD			
					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			
					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			
					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			
					pc_eTDD			
17.4.8	Continued 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			
					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			
			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			
			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			
					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			
					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			
			C113cT		pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
17.4.11.2	CA / Start MBMS reception on PCell / Continue MBMS reception after swap of SCell and PCell / Inter-band CA	Rel-11	C113gF	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			
			C113gT		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 State/Power On	Rel-9	C129	UEs supporting E-UTRA and CMAS	pc_eFDD		Note 3	
19	**Device to Device Proximity Service**							
19.1.1	ProSe direct Communication /Pre-configured authorisation / UE in RRC_IDLE on an E-UTRAN cell operating on the carrier frequency provisioned for ProSe direct service / Utilisation of the resources of (serving) cells/PLMNs / Transmission	Rel-12	C238	UEs supporting E-UTRA FDD and supporting ProSe direct communication	pc_eFDD			
19.1.2	ProSe direct Communication /Pre-configured authorisation / UE in RRC_IDLE on an E-UTRAN cell operating on the carrier frequency provisioned for ProSe direct service / Utilisation of the resources of (serving) cells/PLMNs / Reception	Rel-12	C238	UEs supporting E-UTRA FDD and supporting ProSe direct communication	pc_eFDD			
19.1.3	ProSe Direct Communication/Pre-configured authorisation / UE in RRC_CONNECTED on an E-UTRAN cell operating on the carrier frequency provisioned for ProSe direct service / Utilisation of the resources of (serving) cells/PLMNs / Transmission / RRC connection reconfiguration with/without mobilityControlInfo / RRC connection re-establishment	Rel-12	C238	UEs supporting E-UTRA FDD and supporting ProSe direct communication	pc_eFDD			
19.1.4	ProSe Direct Communication/Pre-configured authorisation / UE in RRC_CONNECTED on an E-UTRAN cell operating on the carrier frequency provisioned for ProSe direct service / Utilisation of the resources of (serving) cells/PLMNs / Reception / RRC connection reconfiguration with mobilityControlInfo / RRC connection re-establishment	Rel-12	C238	UEs supporting E-UTRA FDD and supporting ProSe direct communication	pc_eFDD			
19.1.5	ProSe Direct Communication/Pre-configured authorisation / UE camped on an E-UTRAN cell not operating on the carrier frequency provisioned for ProSe direct service / Utilisation of the resources of (not serving) cells/PLMNs / Transmission and Reception	Rel-12	C238	UEs supporting E-UTRA FDD and supporting ProSe direct communication. Note: This test is not applicable to bands which have 'cells on single frequency only'.	pc_eFDD			
19.1.6	ProSe Direct Communication/Pre-configured authorisation / UE out of coverage on the	Rel-12	C238	UEs supporting E-UTRA FDD and supporting ProSe direct communication	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
	frequency used for sidelink communication / Transmission and Reception / Operation with/without SyncRef UE / Usage information report list sending procedure							
19.1.7	Void							
19.1.8	ProSe Direct Communication/Security Aspects / Release of PDN Connection used to receive MIKEY Messages/ Correct Key Request Message/ MIKEY Verification Message	Rel-12	C238	UEs supporting E-UTRA FDD and supporting ProSe direct communication	pc_eFDD			
19.1.9	ProSe Direct Communication/Pre-configured authorisation / UE out of coverage on the frequency used for sidelink communication / Isolated one-to-one ProSe direct communication / Success/Direct link keepalive/Release upon User request / MO	Rel-13	C238	UEs supporting E-UTRA FDD and supporting ProSe direct communication	pc_eFDD			
19.1.10	ProSe Direct Communication/Pre-configured authorisation / UE out of coverage on the frequency used for sidelink communication / Isolated one-to-one ProSe direct communication / Success/Direct link keepalive/Release upon User request / MT	Rel-13	C238	UEs supporting E-UTRA FDD and supporting ProSe direct communication	pc_eFDD			
19.2.1	ProSe Direct Discovery Monitoring/Pre-configured authorisation / Monitoring / Handling of validity timers / Utilisation of the resources of different cells/PLMNs	Rel-12	C240	UEs supporting E-UTRA and ProSe direct discovery	pc_eFDD, pc_disc_public_safety pc_eTDD, pc_disc_public_safety			
19.2.2	ProSe Direct Discovery Announcing/Pre-configured authorisation / Announcing and SLSS transmission in RRC_IDLE / Handling of validity timers / Utilisation of the resources of different cells/PLMNs	Rel-12	C240	UEs supporting E-UTRA and ProSe direct discovery	pc_eFDD, pc_disc_public_safety pc_eTDD, pc_disc_public_safety			
19.2.3	ProSe Direct Discovery Announcing/Pre-configured authorisation / Announcing and SLSS transmission in RRC_CONNECTED / RRC connection reconfiguration with/without the mobilityControlInfo / RRC connection re-establishment	Rel-12	C240	UEs supporting E-UTRA and ProSe direct discovery	pc_eFDD, pc_disc_public_safety, pc_discScheduledResourceAlloc, pc_discUESelectedResourceAlloc pc_eTDD, pc_disc_public_safety, pc_discScheduledResourceAlloc,			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
					pc_discUESelectedResourceAlloc			
19.2.4	Void							
19.2.5	Void							
19.2.6	One-to-many ProSe direct communication/Pre-configured authorisation/Off-network / ProSe Direct Discovery for public safety use / Announcing UE procedure for group member discovery	Rel-13	C324	UEs supporting E-UTRA and ProSe direct discovery for public safety use and Announcing for group member discovery	pc_eFDD, pc_disc_public_safety pc_ProSeAnnForGroupMemberDiscovery			
19.2.7	One-to-many ProSe direct communication/Pre-configured authorisation/Off-network / ProSe Direct Discovery for public safety use / Discoverer UE procedure for group member discovery	Rel-13	C240	UEs supporting E-UTRA and ProSe direct discovery for public safety use	pc_eFDD, pc_disc_public_safety			
19.2.8	One-to-many ProSe direct communication/Pre-configured authorisation/Off-network / ProSe Direct Discovery for public safety use / Discoveree UE procedure for group member discovery	Rel-13	C240	UEs supporting E-UTRA and ProSe direct discovery for public safety use	pc_eFDD, pc_disc_public_safety			
20	**Tunnel management procedure UE to ePDG**							
20.1	Void							
20.2	Selection of ePDG and Tunnel establishment	Rel-11	C269	UEs supporting WLAN and GSMA PRD IR.51: "IMS Profile for Voice, Video and SMS over Wi-Fi"				
20.3	UE initiated disconnection	Rel-11	C269	UEs supporting WLAN and GSMA PRD IR.51: "IMS Profile for Voice, Video and SMS over Wi-Fi"				
20.4	ePDG initiated disconnection	Rel-11	C269	UEs supporting WLAN and GSMA PRD IR.51: "IMS Profile for Voice, Video and SMS over Wi-Fi"				
21	**SC-PTM in LTE**							
21.1.1	SC-MCCH information acquisition/ UE is switched on	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.1.2	SC-MCCH information acquisition/ cell reselection to a cell broadcasting SIB20	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.1.3	SC-MCCH information acquisition/ UE handover to a cell broadcasting SIB20	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.1.4	SC-MCCH information acquisition/ UE is receiving an SC-PTM service	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.1.5	SC-MCCH information acquisition/ UE is not receiving SC-PTM data	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.2.1	DRX operation / Parameters configured by RRC	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.3.1	Cell reselection to intra-frequency cell to continue SC-PTM service reception	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.3.1a		Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
	Cell reselection to intra-frequency cell to continue SC-PTM service reception / Single Frequency operation (inter-band neighbouring cell)				pc_eTDD			
21.3.2	Cell reselection to inter-frequency cell to start SC-PTM service reception	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.3.2a	Cell reselection to inter-band cell to start SC-PTM service reception	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.3.3	Handover to inter-frequency cell to start SC-PTM service reception	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.3.3a	Handover to inter-band cell to start SC-PTM service reception	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.3.4	Handover to intra-frequency cell to continue SC-PTM service reception	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.3.5	Conditional retransmission of MBMS Interest Indication after handover	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.3.6	MBMS Interest Indication retransmission after returning from cell not broadcasting SIB15	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.3.7	MBMS Interest Indication retransmission after returning from cell not broadcasting SIB20	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.3.8	MBMS Interest Indication after Radio Link Failure	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.3.9	Continued SC-PTM service reception after E-UTRAN release of unicast bearer	Rel-13	C259	UEs supporting E-UTRA and SC-PTM	pc_eFDD			
					pc_eTDD			
21.3.10.1	CA/ Start SC-PTM reception on Non-Serving Cell / Continue SC-PTM reception on Scell after SCell addition / intra-band Contiguous CA	Rel-13	C259cF	UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation and Feature Group Indicator 13 and Feature Group Indicator 25 and SC-PTM and reception of SCPTM on SCell and on NonServingCell	pc_eFDD			
			C259cT		pc_eTDD			
21.3.10.2	CA/ Start SC-PTM reception on Non-Serving Cell / Continue SC-PTM reception on Scell after SCell addition / Inter-band CA	Rel-13	C259dF	UEs supporting E-UTRA and Inter-band Carrier Aggregation and Feature Group Indicator 13 and Feature Group Indicator 25 and SC-PTM and reception of SCPTM on SCell and on NonServingCell	pc_eFDD			
			C259dT		pc_eTDD			
21.3.11.1	CA/ Start SC-PTM reception on SCell / Continue SC-PTM reception on Non-Serving after SCell release / intra-band Contiguous CA	Rel-13	C259e	UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation and SC-PTM and reception of SCPTM on SCell and on NonServingCell	pc_eFDD			
					pc_eTDD			
21.3.11.2	CA/ Start SC-PTM reception on SCell / Continue SC-PTM reception on Non-Serving after SCell release / inter-band CA	Rel-13	C259f	UEs supporting E-UTRA and Inter-band Carrier Aggregation and SC-PTM and reception of SCPTM on SCell and on NonServingCell	pc_eFDD			
					pc_eTDD			
21.3.12.1	CA/ Start SC-PTM reception on PCell / Continue SC-PTM reception after swap of SCell and PCell/ intra-band Contiguous CA	Rel-13	C259gF	UEs supporting E-UTRA and Intra-band contiguous Carrier Aggregation and Feature Group Indicator 13 and Feature Group Indicator 25 and SC-PTM and reception of SCPTM on SCell	pc_eFDD			
			C259gT		pc_eTDD			
21.3.12.2		Rel-13	C259hF		pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
	CA/ Start SC-PTM reception on PCell / Continue SC-PTM reception after swap of SCell and PCell/ inter-band CA		C259hT	UEs supporting E-UTRA and Inter-band Carrier Aggregation and Feature Group Indicator 13 and Feature Group Indicator 25 and SC-PTM and reception of SCPTM on SCell	pc_eTDD			
22	**NB-IoT**							
22.1.1	NB-IoT / Control Plane CIoT EPS optimisation for EPS services	Rel-13	C266	UEs supporting NB-IoT	pc_NonIP_PDN, pc_IP_PDN, pc_NB_S1_only pc_NonIP_Link_MTU_Parameter pc_IPv4_Link_MTU_Parameter pc_APN_RateControl	px_DoAttachWithoutPDN, px_nonSMSTransport_CP_CIoT, px_SMSTransport_CP_CIoT, px_ModifyBearerResources,	Note 18	
22.2.1	NB-IoT / PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode	Rel-13	C266	UEs supporting NB-IoT				
22.2.2	NB-IoT / PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Manual mode	Rel-13	C266	UEs supporting NB-IoT				
22.2.3	NB-IoT / PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer	Rel-13	C266	UEs supporting NB-IoT				
22.2.4	NB-IoT / Cell selection / Qrxlevmin and Qqualmin / Serving cell becomes non-suitable (S<0 or barred or Srxlev > 0 and Squal < 0)	Rel-13	C266	UEs supporting NB-IoT				
22.2.5	NB-IoT / Intra-frequency Cell reselection / Qhyst, Qoffset, Treselection and Cell-specific reselection parameters	Rel-13	C266	UEs supporting NB-IoT				
22.2.6	NB-IoT / Cell reselection using cell status and cell reservations / Access control class 0 to 9	Rel-13	C266	UEs supporting NB-IoT				
22.2.7	NB-IoT / Cell reselection using cell status and cell reservations / Access control class 11 to 15	Rel-13	C266	UEs supporting NB-IoT				
22.2.8	NB-IoT / Cell reselection in shared network environment	Rel-13	C266	UEs supporting NB-IoT				
22.2.9	NB-IoT / Inter-frequency cell reselection	Rel-13	C266	UEs supporting NB-IoT				
22.2.10	NB-IoT / Cell reselection / MFBI	Rel-13	C266	UEs supporting NB-IoT				
22.3.1.1	NB-IoT / RACH Procedure / Preamble Selected by MAC / Temporary C-RNTI	Rel-13	C266	UEs supporting NB-IoT				
22.3.1.2	NB-IoT / Correct Handling of DL MAC PDU / Assignment/HARQ process / TimeAlignmentTimer expiry	Rel-13	C266	UEs supporting NB-IoT				
22.3.1.3	NB-IoT / Correct Handling of UL MAC PDU/Assignment/HARQ process/Padding	Rel-13	C266	UEs supporting NB-IoT				
22.3.1.4	NB-IoT / Correct handling of MAC control information / Buffer status	Rel-13	C266	UEs supporting NB-IoT				

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
22.3.1.5	NB-IoT / DRX operation / DRX cycle configured / Parameters configured by RRC/ DRX command MAC control element reception	Rel-13	C266	UEs supporting NB-IoT				
22.3.1.6	NB-IoT / DL-SCH /UL-SCH transport block size selection / DCI format N1/ N0	Rel-13	C266	UEs supporting NB-IoT				
22.3.1.6a	NB-IoT / DL-SCH /UL-SCH transport block size selection / DCI format N1/ N0/ Category NB2	Rel-14	C347	UEs supporting NB-IoT and Category NB2				
22.3.1.7	NB-IoT / RACH Procedure / Contention free random access (CFRA)	Rel-14	C266	UEs supporting NB-IoT				
22.3.1.8	NB-IoT / RACH Procedure / Non-anchor carrier	Rel-14	C348	UEs supporting NB-IoT and NPRACH on non-anchor carrier				
22.3.1.9	NB-IoT / Correct HARQ process / 2 HARQ processes	Rel-14	C339	UEs supporting NB-IoT and 2 HARQ processes in DL and UL and Category NB2				
22.3.1.10	NB-IoT / RACH Procedure / Early contention resolution	Rel-14	C266	UEs supporting NB-IoT				
22.3.2.1	NB-IoT / AM RLC / Correct use of sequence numbering / Concatenation and reassembly / Polling for status	Rel-13	C266	UEs supporting NB-IoT				
22.3.2.2	NB-IoT / AM RLC / Receiver status triggers	Rel-13	C266	UEs supporting NB-IoT				
22.3.2.3	NB-IoT / AM RLC / In sequence delivery of upper layers PDUs/ Different numbers of length indicators	Rel-13	C266	UEs supporting NB-IoT				
22.3.2.4	NB-IoT / AM RLC / Re-segmentation RLC PDU / SO, FI, LSF/ Re-transmission of RLC PDU	Rel-13	C266	UEs supporting NB-IoT				
22.3.2.5	NB-IoT / AM RLC / Segmentation and Reassembly / AMD PDU reassembly Re-ordering, from AMD PDU segments / FI, SO and LSF	Rel-13	C266	UEs supporting NB-IoT				
22.3.2.6	NB-IoT / UM RLC / Correct use of sequence numbering / Concatenation, segmentation and reassembly / SC-MCCH and SC-MTCH	Rel-14	C351	UEs supporting NB-IoT and SC-PTM and Feature Group Indicator 3 and Feature Group Indicator 7				
22.3.2.7	NB-IoT / AM RLC / Receiver status triggers / Non-zero t-Reordering configured	Rel-14	C339	UEs supporting NB-IoT and 2 HARQ processes in DL and UL				
22.3.3.1	NB-IoT / Maintenance of PDCP sequence numbers / User plane / RLC AM	Rel-13	C290	UEs supporting NB-IoT and S1-U Data Transfer				
22.3.3.2	NB-IoT / Integrity protection / Ciphering and deciphering / Correct functionality of EPS AS and UP encryption algorithms / SNOW3G	Rel-13	C290	UEs supporting NB-IoT and S1-U Data Transfer				
22.3.3.3	NB-IoT / Integrity protection / Ciphering and deciphering / Correct functionality of EPS AS and UP encryption algorithms / AES	Rel-13	C290	UEs supporting NB-IoT and S1-U Data Transfer				
22.3.3.4	NB-IoT / Integrity protection / Ciphering and deciphering / Correct functionality of EPS AS and UP encryption algorithms / ZUC	Rel-13	C291	UEs supporting NB-IoT and S1-U Data Transfer and ZUC algorithm				
22.3.3.5	NB-IoT / PDCP re-establishment / stored UE AS context is used and drb-ContinueROHC is configured	Rel-13	C271	UEs supporting NB-IoT and User plane CIoT Optimisation				

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
22.3.3.6	NB-IoT / PDCP Discard	Rel-13	C290	UEs supporting NB-IoT and S1-U Data Transfer				
22.4.1	NB-IoT / Notification of BCCH modification in idle mode / eDRX cycle longer than the modification period	Rel-13	C273	UEs supporting NB-IoT and Extended DRX				
22.4.2	NB-IoT / Paging for connection in idle mode / Multiple paging records / Shared network environment	Rel-13	C266	UEs supporting NB-IoT				
22.4.4	NB-IoT / RRC connection establishment / Paging / Access Barring for UE with AC 0 to 9 / ab-Category a, b and c	Rel-13	C266	UEs supporting NB-IoT				
22.4.5	NB-IoT / RRC connection establishment / Paging / Access Barring for UE with AC 11 to 15 / ab-Category a, b and c	Rel-13	C266	UEs supporting NB-IoT				
22.4.6	NB-IoT / Paging for notification of BCCH modification in idle mode / Direct indication for SI update	Rel-13	C266	UEs supporting NB-IoT				
22.4.7	NB-IoT / RRC connection release with extendedWait / extendedWait ignored / RRC connection establishment / Reject with extendedWait	Rel-13	C266	UEs supporting NB-IoT				
22.4.8	NB-IoT / RRC connection establishment / Access Barring for UE with AC 0 to 9 / MO exception data / ab-Category a, b and c	Rel-13	C266	UEs supporting NB-IoT				
22.4.9	NB-IoT / RRC connection establishment / Access Barring for UE with AC 11 to 15 / MO exception data / ab-Category a, b and c	Rel-13	C266	UEs supporting NB-IoT				
22.4.11	NB-IoT / RRC connection release / Redirection to another NB-IoT frequency	Rel-13	C266	UEs supporting NB-IoT				
22.4.12	NB-IoT / RRC connection release / Redirection to another NB-IoT band	Rel-13	C266	UEs supporting NB-IoT				
22.4.13	NB-IoT / UE capability transfer / Success	Rel-13	C266	UEs supporting NB-IoT				
22.4.14	NB-IoT / RRC Connection Establishment / Multi-Carrier	Rel-13	C288	UEs supporting NB-IoT and multi-carrier operation				
22.4.15	NB-IoT / RRC connection suspend-resume / Success / different cell	Rel-13	C271	UEs supporting NB-IoT and User plane CIoT Optimisation				
22.4.16	NB-IoT / RRC connection suspend-resume / Failure / Network reject	Rel-13	C271	UEs supporting NB-IoT and User plane CIoT Optimisation				
22.4.17	Void							
22.4.18	NB-IoT / RRC connection reconfiguration / SRB reconfiguration / Success	Rel-13	C290	UEs supporting NB-IoT and S1-U Data Transfer				
22.4.19	Void							
22.4.19a	NB-IoT / Radio link failure / T301 expiry / T311 expiry / RRC connection re-establishment	Rel-14	C322	UEs supporting NB-IoT and RRC connection re-establishment				
22.4.20	NB-IoT / Radio link failure / RRC connection re-establishment reject	Rel-13	C290	UEs supporting NB-IoT and S1-U Data Transfer				

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
22.4.20a	NB-IoT / Radio link failure / RRC connection re-establishment reject / RRC connection re-establishment	Rel-14	C322	UEs supporting NB-IoT and RRC connection re-establishment				
22.4.21	NB-IoT / Radio link failure / Radio link recovery while T310 is running	Rel-13	C290	UEs supporting NB-IoT and S1-U Data Transfer				
22.4.22	NB-IoT / Radio link failure / T301 expiry / T311 expiry / Dedicated RLF timer (UP/SI-U)	Rel-13	C290	UEs supporting NB-IoT and S1-U Data Transfer				
22.4.23	NB-IoT / Radio link failure / T310 expiry / Dedicated RLF timer (CP CIoT)	Rel-13	C266	UEs supporting NB-IoT				
22.4.24	NB-IoT / RRC / Paging for connection in idle mode / Non-anchor carrier	Rel-14	C349	UEs supporting NB-IoT and paging on non-anchor carriers in NB-IoT				
22.4.25	NB-IoT / SC-MCCH information acquisition / UE receives SC-PTM service	Rel-14	C350	UEs supporting NB-IoT and SC-PTM in Idle mode				
22.5.1	NB-IoT / Authentication not accepted by the network, GUTI used / Authentication not accepted by the UE, SQN failure / Authentication not accepted by the UE, non-EPS authentication unacceptable / Network failing the authentication check	Rel-13	C266	UEs supporting NB-IoT				
22.5.2	NB-IoT / NAS Security / Handling of null integrity protection and null ciphering algorithms / NAS count reset to zero / Security mode command with not matching replayed security capabilities / Provision of IMEISV and IMEI	Rel-13	C266	UEs supporting NB-IoT				
22.5.3	NB-IoT / NW initiated detach Re-attach required / UE initiated detach Abnormal case EMM common procedure collision / UE initiated detach Abnormal case Local detach after 5 attempts due to no network response	Rel-13	C266	UEs supporting NB-IoT				
22.5.4	NB-IoT / Attach to new PLMN GUTI reallocation / Network reject with Extended Wait Timer / Paging with IMSI / Attach Rejected Illegal ME/UE / Detach upon switch-off	Rel-13	C266	UEs supporting NB-IoT				
22.5.5	NB-IoT / Attach Procedure / Success / List of equivalent PLMNs in the ATTACH ACCEPT message / Attach / Rejected / PLMN not allowed	Rel-13	C266	UEs supporting NB-IoT				
22.5.6	NB-IoT / UE in NB-S1 mode supporting CIoT Optimizations / Attach Abnormal cases / EPS services not allowed / Failure due to non integrity protection / Unsuccessful attach after 5 attempts / Repeated rejects for network failures / Change of cell into a new tracking area / Detach procedure collision / UE initiated detach USIM removed from the UE	Rel-13	C266	UEs supporting NB-IoT				
22.5.7a	NB-IoT / Periodic tracking area update Accepted / Normal tracking area update List of equivalent PLMNs in the TRACKING AREA UPDATE ACCEPT message / Normal tracking	Rel-13	C266	UEs supporting NB-IoT				

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
	area update Rejected (IMSI invalid / Illegal ME / UE identity cannot be derived by the network / UE implicitly detached / PLMN not allowed							
22.5.7b	NB-IoT / Normal tracking area update Rejected (Tracking area not allowed / No suitable cells in tracking area / Roaming not allowed in this tracking area / Congestion) / UE initiated detach Abnormal case Change of cell into a new tracking area	Rel-13	C266	UEs supporting NB-IoT				
22.5.8	NB-IoT / Normal tracking area update Abnormal case / Success or fail after several attempts due to no network response / TA belongs to TAI list and status is UPDATED / TRACKING AREA UPDATE REJECT / Change of cell into a new tracking area / Tracking area updating and detach procedure collision	Rel-13	C266	UEs supporting NB-IoT				
22.5.9	NB-IoT / UE in NB-S1 mode supporting CIoT Optimizations / Paging with not matching identity / Control Plane Service request Rejected (IMSI invalid / Illegal ME / EPS services not allowed / UE identity cannot be derived by the network / UE implicitly detached)	Rel-13	C266	UEs supporting NB-IoT				
22.5.10	NB-IoT / EPS NAS integrity and encryption / SNOW 3G	Rel-13	C266	UEs supporting NB-IoT				
22.5.11	NB-IoT / EPS NAS integrity and encryption / AES	Rel-13	C266	UEs supporting NB-IoT				
22.5.12	NB-IoT / EPS NAS integrity and encryption / ZUC	Rel-13	C272	UEs supporting NB-IoT and ZUC algorithms				
22.5.13	NB-IoT / Attach Procedure / Success / Last visited TAI, TAI list and equivalent PLMN list handling	Rel-13	C266	UEs supporting NB-IoT				
22.5.14	NB-IoT / Attach / Rejected / Tracking Area not allowed / Roaming not allowed in this tracking area / No suitable cells in tracking area	Rel-13	C266	UEs supporting NB-IoT				
22.5.15	NB-IoT / Normal tracking area update / low priority override	Rel-13	C275	UEs supporting NB-IoT and LAP and LAP override				
22.5.16	NB-IoT / Normal tracking area update / Rejected / EPS service not allowed /EPS services not allowed in this PLMN	Rel-13	C266	UEs supporting NB-IoT				
22.5.17	NB-IoT / Attach Success /Normal tracking area update accepted / Periodic tracking area update T3412 Extended Value / PSM	Rel-13	C266	UEs supporting NB-IoT				
22.5.18	NB-IoT / Attach & Normal tracking area update Procedure / Success / without Idle eDRX parameters / With Idle eDRX parameters/ With and without Idle eDRX and PSM parameters	Rel-13	C266	UEs supporting NB-IoT				
22.5.19	NB-IoT/RDS(new protocol of NON-IP transmission) between UE and SCEF	Rel-14	C340	UEs supporting NB-IoT and non-IP data transfer				

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
22.5.20	NB-IoT/ UE in NB-S1 mode supporting control plane data back-off timer/ Service reject with extended wait time CP data/ Release with extended wait time CP data/ Attach accept with extended wait time CP data	Rel-14	C341	UEs supporting NB-IoT				
22.5.21	NB-IoT/APN rate control for MO exception data	Rel-14	C342	UEs supporting NB-IoT and APN rate control and additional APN rate control for exception data				
22.5.22	NB-IoT / Tracking area update/Inter-RAT change between NB-IoT and E-UTRA	Rel-14	C323	UEs supporting NB-S1 and WB-S1				
22.6.1	NB-IoT / UE routing of uplinks packets/ User Plane/ UE requested PDN disconnect procedure accepted by the network	Rel-13	C290	UEs supporting NB-IoT, and S1-U Data Transfer				
22.6.1a	NB-IoT / UE routing of uplinks packets / Control Plane	Rel-13	C266	UEs supporting NB-IoT				
22.6.2	NB-IoT / UE requested bearer resource modification accepted by the network / Default EPS bearer context	Rel-13	C293	UEs supporting NB-IoT ESM UE requested bearer resource modification procedure, and requesting PDN of type "IP"				
22.6.3	NB-IoT / UE requested bearer resource modification error handling (Resource modification not accepted by the network) / Expiry of timer T3481/ Default EPS bearer context	Rel-13	C293	UEs supporting NB-IoT, ESM UE requested bearer resource modification procedure and requesting PDN of type "IP"				
22.6.5	NB-IoT / UE requested PDN connectivity procedure not accepted / UE requested PDN connectivity accepted Dual priority T3396 override UE requested PDN connectivity accepted / Dual priority / T3346 override	Rel-13	C277	UEs supporting NB-IoT and Multiple PDN and LAP and LAP override				
23	**CIoT**							
23.1.1	CIoT / Control Plane MO and MT IP and non-IP Data Transfer / Serving PLMN Rate Control / APN Rate Control	Rel-13	C284	UEs supporting E-UTRA and Control Plane CIoT	pc_eFDD, pc_IPv4_Link_MTU_Parameter, pc_APN_RateControl		Note 19	
					pc_eTDD, pc_IPv4_Link_MTU_Parameter, pc_APN_RateControl			
23.1.2	CIoT Optimization / Control Plane / MT and MO SMS Data Transfer	Rel-13	C284	UEs supporting E-UTRA and Control Plane CIoT	pc_eFDD		Note 19	
					pc_eTDD			
23.2.1	CIoT Optimization / User Plane	Rel-13	C285	UEs supporting E-UTRA and User Plane CIoT	pc_eFDD		Note 19	
					pc_eTDD			
23.2.2	CIoT / RRC connection suspend-resume / Success / different cell	Rel-13	C285	UEs supporting E-UTRA and User Plane CIoT	pc_eFDD		Note 19	
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
23.2.3	CIoT / RRC connection suspend-resume / Network reject / different cell	Rel-13	C285	UEs supporting E-UTRA and User Plane CIoT	pc_eFDD		Note 19	
					pc_eTDD			
24	**V2X Sidelink Communication**							
24.1.1	V2X Sidelink Communication / Pre-configured authorisation / UE in RRC_IDLE on an E-UTRAN cell operating on the carrier frequency provisioned for V2X / Utilisation of the resources of (serving) cells/PLMNs / Transmission	Rel-14	C309	UEs supporting E-UTRA and V2X sidelink communication and transmitting PSCCH/PSSCH using UE autonomous resource selection mode with full sensing	pc_eFDD			
					pc_eTDD			
24.1.2	V2X Sidelink Communication / Pre-configured authorisation / Utilisation of the pre-configured resources / Transmission	Rel-14	C303	UEs supporting V2X sidelink communication and transmitting PSCCH/PSSCH using UE autonomous resource selection mode with full sensing				
24.1.3	V2X Sidelink Communication/ Pre-configured authorisation / UE in RRC_IDLE on an E-UTRAN cell operating on the anchor carrier frequency provisioned for V2X configuration / Utilisation of the resources of (serving) cells/PLMNs / Reception	Rel-14	C307	UEs supporting E-UTRA and V2X sidelink communication	pc_eFDD			
					pc_eTDD			
24.1.4	V2X Sidelink Communication/ Pre-configured authorisation / Utilisation of the pre-configured resources / Reception	Rel-14	C302	UEs supporting V2X sidelink communication				
24.1.5	V2X Sidelink Communication/ Pre-configured authorisation / UE in RRC_CONNECTED on an E-UTRAN cell operating on the anchor carrier frequency provisioned for V2X configuration / Utilisation of the resources of (serving) cells/PLMNs / Transmission / RRC connection re-establishment	Rel-14	C308	UEs supporting E-UTRA and V2X sidelink communication and transmitting PSCCH/PSSCH using dynamic scheduling	pc_eFDD			
					pc_eTDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
24.1.6	V2X Sidelink Communication/ Pre-configured authorisation / UE in RRC_CONNECTED on an E-UTRAN cell operating on the anchor carrier frequency provisioned for V2X configuration / Utilisation of the resources of (serving) cells/PLMNs / Transmission / RRC connection reconfiguration with/without *v2x-CommTxPoolExceptional* in *mobilityControlInfoV2X* / Handover	Rel-14	C308	UEs supporting E-UTRA and V2X sidelink communication and transmitting PSCCH/PSSCH using dynamic scheduling	pc_eFDD			
					pc_eTDD			
24.1.7	V2X Sidelink Communication/ Pre-configured authorisation / UE in RRC_CONNECTED on an E-UTRAN cell operating on the anchor carrier frequency provisioned for V2X configuration / Utilisation of the resources of (serving) cells/PLMNs / Reception / RRC connection reconfiguration with v2x-CommRxPool in mobilityControlInfoV2X/ Handover	Rel-14	C308	UEs supporting E-UTRA and V2X sidelink communication and transmitting PSCCH/PSSCH using dynamic scheduling	pc_eFDD			
					pc_eTDD			
24.1.8	V2X Sidelink Communication/ Pre-configured authorisation / UE camped on an E-UTRAN cell operating on the anchor carrier frequency provisioned for V2X configuration / Utilisation of the resources of cells/PLMNs / Transmission based on zoning	Rel-14	C312	UEs supporting E-UTRA and V2X sidelink communication and zone based transmission resource pool selection	pc_eFDD			
					pc_eTDD			
24.1.9	V2X Sidelink Communication/ Pre-configured authorisation / Utilisation of the pre-configured resources / Transmission based on zoning	Rel-14	C306	UEs supporting V2X sidelink communication and zone based transmission resource pool selection				
24.1.10	V2X Sidelink Communication / Pre-configured authorisation / UE in RRC_CONNECTE on an E-UTRAN cell operating on the anchor carrier frequency for V2X configuration/ UE is scheduled to transmit V2X messages on the frequency used for V2X sidelink communication / Inter-frequency scheduled Transmission	Rel-14	C308	UEs supporting E-UTRA and V2X sidelink communication and transmitting PSCCH/PSSCH using dynamic scheduling	pc_eFDD			
					pc_eTDD			
24.1.11	V2X Sidelink Communication / Pre-configured authorisation / UE in RRC_Connected on an E-UTRAN cell operating on the carrier frequency for V2X configuration/ UE measures CBR of configured Tx resource pools and report CBR results to eNB	Rel-14	C311	UEs supporting E-UTRA and V2X sidelink communication and CBR measurement and reporting	pc_eFDD			
					pc_eTDD			
24.1.12	V2X Sidelink Communication / Pre-configured authorisation / UE in RRC_IDLE on an E-UTRAN cell operating on the anchor carrier frequency for V2X configuration/ UE transmits V2X sidelink communication using Tx parameters based on measured CBR and PPPP	Rel-14	C311	UEs supporting E-UTRA and V2X sidelink communication and CBR measurement and reporting	pc_eFDD			
					pc_eTDD			
24.1.13		Rel-14	C308		pc_eFDD			

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
	V2X Sidelink Communication / Pre-configured authorisation / UE in RRC_Connected on an E-UTRAN cell operating on the anchor carrier frequency for V2X configuration/ Utilisation of the SL SPS resources configured by eNB/ Transmission			UEs supporting E-UTRA and V2X sidelink communication and transmitting PSCCH/PSSCH using dynamic scheduling	pc_eTDD			
24.1.14	V2X Sidelink Communication / Pre-configured authorisation / UE in RRC_IDLE/RRC_Connected on an E-UTRAN cell operating on the carrier frequency for V2X configuration / SLSS and MasterInformationBlock-SL-V2X message Transmission	Rel-14	C310	UEs supporting E-UTRA and V2X sidelink communication and SLSS transmission /reception for V2X sidelink communication	pc_eFDD			
					pc_eTDD			
24.1.15	V2X Sidelink Communication / Pre-configured authorisation / UE out of coverage on the frequency used for V2X sidelink communication and without inter-frequency V2X configuration on anchor carriers/ Operation with/without SyncRef UE/ SLSS and MasterInformationBlock-SL-V2X message Transmission	Rel-14	C304	UEs supporting V2X sidelink communication and SLSS transmission /reception for V2X sidelink communication				
24.1.16	V2X Sidelink Communication / Pre-configured authorisation / Utilisation of the pre-configured resources / CBR measurement	Rel-14	C305	UEs supporting V2X sidelink communication and CBR measurement and reporting				
24.1.17	V2X Sidelink Communication / Pre-configured authorisation / UE in RRC_IDLE on an E-UTRAN cell operating on the anchor carrier frequency provisioned for V2X configuration / UE uses Tx resource pool which is associated with the synchronization reference source selected	Rel-14	C307	UEs supporting E-UTRA and V2X sidelink communication	pc_eFDD			
					pc_eTDD			
24.1.18	V2X Sidelink Communication / Pre-configured authorisation / UE out of coverage on the frequency used for V2X sidelink communication and without inter-frequency V2X configuration on anchor carriers/ Operation with/without SyncRef UE/ SLSS and MasterInformationBlock-SL-V2X message Transmission/ syncPriority in SL-V2X-Preconfiguration is set to eNB	Rel-14	C304	UEs supporting V2X sidelink communication and SLSS transmission /reception for V2X sidelink communication				
24.1.19	V2X Sidelink Communication/ Pre-configured authorisation / Utilisation of the pre-configured resources / CBR measurement/Transmission based on CR limit has been added	Rel-14	C328	UEs supporting V2X sidelink communication and CBR measurement and reporting and transmitting PSCCH/PSSCH using UE autonomous resource selection mode with full sensing				

Clause	TC Title	Release	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
24.1.20	V2X Sidelink Communication / Pre-configured authorisation / UE in limited service state on the anchor carrier frequency provisioned for V2X configuration /Transmission	Rel-14	C307	UEs supporting E-UTRA and V2X sidelink communication	pc_eFDD			
					pc_eTDD			
24.2.1	P2X Sidelink Communication / Pre-configured authorisation / UE in RRC_IDLE on an E-UTRAN cell operating on the anchor carrier frequency provisioned for V2X configuration / Utilisation of the resources of (serving) cells/PLMNs / Transmission / Partial sensing	Rel-14	C343	Pedestrian UEs supporting E-UTRA and V2X sidelink communication and transmitting PSCCH/PSSCH using UE autonomous resource selection mode with partial sensing	pc_eFDD			
					pc_eTDD			
24.2.2	P2X Sidelink Communication / Pre-configured authorisation / UE in RRC_IDLE on an E-UTRAN cell operating on the anchor carrier frequency provisioned for V2X configuration / Utilisation of the resources of (serving) cells/PLMNs / Transmission / Random selection	Rel-14	C344	Pedestrian UEs supporting E-UTRA and V2X sidelink communication and not supporting PSCCH/PSSCH transmission using UE autonomous resource selection mode with partial sensing	pc_eFDD			
					pc_eTDD			
24.2.3	P2X Sidelink Communication / Pre-configured authorisation / Utilisation of the pre-configured resources / Transmission	Rel-14	C345	Pedestrian UEs supporting V2X sidelink communication				
24.2.4	P2X Sidelink Communication / Pre-configured authorisation / UE in RRC_IDLE on an E-UTRAN cell operating on the anchor carrier frequency for V2X configuration/ UE transmits V2X sidelink communication using Tx parameters based on PPPP and configured CBR	Rel-14	C346	Pedestrian UEs supporting E-UTRA and V2X sidelink communication	pc_eFDD			
					pc_eTDD			
24.3.1	V2X Uplink Communication / UE in RRC_Connected on an E-UTRAN cell / Utilisation of the UL SPS resources configured by eNB/ Transmission	Rel-14	C336	UEs supporting E-UTRA and V2X communication Via Uu and multiple uplink SPS	pc_eFDD			
					pc_eTDD			
24.3.2	V2X Downlink Communication / UE in IDLE or RRC_Connected on an E-UTRAN cell / UE receives the V2X data via MBMS	Rel-14	C337	UEs supporting E-UTRA and MBMS and V2X communication Via Uu	pc_eFDD			
					pc_eTDD			
24.3.3	V2X Downlink Communication / UE in IDLE or RRC_Connected on an E-UTRAN cell / UE receives the V2X data via SC-PTM	Rel-14	C338	UEs supporting E-UTRA and SC-PTM and V2X communication Via Uu	pc_eFDD			
					pc_eTDD			

Table 4-1a: Applicability of tests Conditions

C01	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C01a	IF (A.4.1-1/1 OR A.4.1-1/2) AND [8]A.1/1 AND A. (4.5-2/3 AN OR A.4.5-2/4) D NOT (A.4.3.2-2A/1) THEN R ELSE N/A
C01b	IF (A.4.1-1/1 OR A.4.1-1/2) AND [8]A.1/1 AND A.4.5-2/4 AND NOT (A.4.3.2-2A/1) THEN R ELSE N/A
C02	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-2/2 THEN R ELSE N/A
C02a	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-2/2 AND NOT (A.4.3.2-2A/1) THEN R ELSE N/A
C03	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/1 THEN R ELSE N/A
C04	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-2/1 THEN R ELSE N/A
C05	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C06	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/3 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C07	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/4 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C08F	IF A.4.1-1/1 AND A.4.5-1a/5 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C08aF	IF A.4.1-1/1 AND A.4.5-1a/5 AND A.4.4-1/122 THEN R ELSE N/A
C08bF	IF A.4.1-1/1 AND A.4.5-1a/5 THEN R ELSE N/A
C08T	IF A.4.1-1/2 AND A.4.5-1b/5 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C08aT	IF A.4.1-1/2 AND A.4.5-1b/5 AND A.4.4-1/122 THEN R ELSE N/A
C08bT	IF A.4.1-1/2 AND A.4.5-1b/5 THEN R ELSE N/A
C09F	IF (A.4.1-1/1 AND A.4.5-1a/25) OR (A.4.4-1/122 AND A.4.4-1/141 AND A.4.5-1a/25) THEN R ELSE N/A
C09T	IF (A.4.1-1/2 AND A.4.5-1b/25) OR (A.4.4-1/122 AND A.4.4-1/141 AND A.4.5-1b/25) THEN R ELSE N/A
C10F	IF A.4.1-1/1 AND A.4.5-1a/25 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C10T	IF A.4.1-1/2 AND A.4.5-1b/25 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C11F	IF (A.4.1-1/1 AND A.4.5-1a/16 AND A.4.5-1a/25) OR (A.4.4-1/122 AND A.4.4-1/141 AND A.4.5-1a/25) THEN R ELSE N/A
C11T	IF (A.4.1-1/2 AND A.4.5-1b/16 AND A.4.5-1b/25) OR (A.4.4-1/122 AND A.4.4-1/141 AND A.4.5-1b/25) THEN R ELSE N/A
C12	IF (A.4.1-1/1 OR A.4.1-1/2) OR (A.4.4-1/122 AND A.4.4-1/141 AND A.4.4-1/142) THEN R ELSE N/A
C13F	IF A.4.1-1/1 AND A.4.1-1/6 AND A.4.5-1a/16 AND A.4.5-1a/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C13T	IF A.4.1-1/2 AND A.4.1-1/6 AND A.4.5-1b/16 AND A.4.5-1b/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C14F	IF A.4.1-1/1 AND A.4.5-1a/5 AND A.4.5-1a/17 THEN R ELSE N/A
C14T	IF A.4.1-1/2 AND A.4.5-1b/5 AND A.4.5-1b/17 THEN R ELSE N/A
C15F	IF A.4.1-1/1 AND A.4.5-1a/3 AND A.4.5-1a/7 THEN R ELSE N/A
C15T	IF A.4.1-1/2 AND A.4.5-1b/3 AND A.4.5-1b/7 THEN R ELSE N/A
C16F	IF A.4.1-1/1 AND A.4.5-1a/7 THEN R ELSE N/A
C16aF	IF A.4.1-1/1 AND A.4.5-1a/7 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C16T	IF A.4.1-1/2 AND A.4.5-1b/7 THEN R ELSE N/A
C16aT	IF A.4.1-1/2 AND A.4.5-1b/7 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C17F	IF A.4.1-1/1 AND A.4.1-1/6 AND A.4.1-1/7 AND A.4.5-1a/22 AND A.4.5-1a/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C17T	IF A.4.1-1/2 AND A.4.1-1/6 AND A.4.1-1/7 AND A.4.5-1b/22 AND A.4.5-1b/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C18	IF (A.4.1-1/1 OR A.4.1-1/2) OR (A.4.4-1/122 AND A.4.4-1/141) THEN R ELSE N/A
C19F	IF A.4.1-1/1 AND A.4.5-1a/6 AND A.4.5-1a/7 AND NOT (A.4.3.2-2/1 OR A.4.3.2-1/1 OR A.4.3.2-2A/1) THEN R ELSE N/A
C19aF	IF A.4.1-1/1 AND A.4.5-1a/6 AND A.4.5-1a/7 AND (A.4.3.2-2/1 OR A.4.3.2-1/1 OR A.4.3.2-2A/1) THEN R ELSE N/A

C19T	IF A.4.1-1/2 AND A.4.5-1b/6 AND A.4.5-1b/7 AND NOT (A.4.3.2-2/1 OR A.4.3.2-1/1 OR A.4.3.2-2A/1) THEN R ELSE N/A
C19aT	IF A.4.1-1/2 AND A.4.5-1b/6 AND A.4.5-1b/7 AND (A.4.3.2-2/1 OR A.4.3.2-1/1 OR A.4.3.2-2A/1) THEN R ELSE N/A
C20F	IF A.4.1-1/1 AND A.4.1-1/7 AND A.4.5-1a/16 AND A.4.5-1a/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C20T	IF A.4.1-1/2 AND A.4.1-1/7 AND A.4.5-1b/16 AND A.4.5-1b/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C21F	IF A.4.1-1/1 AND A.4.5-1a/13 AND A.4.5-1a/25 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C21T	IF A.4.1-1/2 AND A.4.5-1b/13 AND A.4.5-1b/25 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C22	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/3 AND A.4.4-2/2 AND NOT (A.4.4-2/32) AND NOT (A.4.3.2-2A/1) THEN R ELSE N/A
C23	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/4 AND A.4.4-2/2 AND NOT (A.4.4-2/32) AND NOT (A.4.3.2-2A/1) THEN R ELSE N/A
C24F	IF A.4.1-1/1 AND A.4.1-1/3 AND A.4.5-1a/16 AND A.4.5-1a/26 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C24T	IF A.4.1-1/2 AND A.4.1-1/3 AND A.4.5-1b/16 AND A.4.5-1b/26 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C25F	IF A.4.1-1/1 AND A.4.1-1/4 AND A.4.5-1a/16 AND A.4.5-1a/24 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C25T	IF A.4.1-1/2 AND A.4.1-1/4 AND A.4.5-1b/16 AND A.4.5-1b/24 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C26	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/1 AND NOT (A.4.3.2-2A/1) THEN R ELSE N/A
C27	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/6 OR A.4.1-1/7) AND A.4.4-1/5 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C28F	IF (A.4.1-1/1 AND A.4.5-1a/13 AND A.4.5-1a/25) OR (A.4.4-1/122 AND A.4.4-1/141 AND A.4.4-1/142 AND A.4.5-1a/25) THEN R ELSE N/A
C28T	IF (A.4.1-1/2 AND A.4.5-1b/13 AND A.4.5-1b/25) OR (A.4.4-1/122 AND A.4.4-1/141 AND A.4.4-1/142 AND A.4.5-1b/25) THEN R ELSE N/A
C29F	IF A.4.1-1/1 AND 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) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C29T	IF A.4.1-1/2 AND 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) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C30F	IF A.4.1-1/1 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) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C30T	IF A.4.1-1/2 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) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C31F	IF A.4.1-1/1 AND 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) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C31T	IF A.4.1-1/2 AND 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) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C32F	IF A.4.1-1/1 AND A.4.5-1a/7 AND A.4.5-1a/20 THEN R ELSE N/A
C32T	IF A.4.1-1/2 AND A.4.5-1b/7 AND A.4.5-1b/20 THEN R ELSE N/A
C33F	IF A.4.1-1/1 AND A.4.5-1a/20 THEN R ELSE N/A
C33T	IF A.4.1-1/2 AND A.4.5-1b/20 THEN R ELSE N/A
C34	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/6 AND A.4.4-1/7 THEN R ELSE N/A
C35	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/6 THEN R ELSE N/A
C36F	IF A.4.1-1/1 AND A.4.1-1/6 AND A.4.5-1a/8 AND A.4.5-1a/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C36T	IF A.4.1-1/2 AND A.4.1-1/6 AND A.4.5-1b/8 AND A.4.5-1b/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C37	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND (A.4.4-1/8 OR A.4.4-1/53) AND A.4.5-2/2 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C38F	IF A.4.1-1/1 AND A.4.1-1/7 AND A.4.5-1a/10 AND A.4.5-1a/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A

C38T	IF A.4.1-1/2 AND A.4.1-1/7 AND A.4.5-1b/10 AND A.4.5-1b/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C39F	IF A.4.1-1/1 AND A.4.1-1/6 AND A.4.5-1a/5 AND A.4.5-1a/19 AND A.4.5-1a/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C39T	IF A.4.1-1/2 AND A.4.1-1/6 AND A.4.5-1b/5 AND A.4.5-1b/19 AND A.4.5-1b/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C40F	IF A.4.1-1/1 AND A.4.1-1/7 AND A.4.5-1a/5 AND A.4.5-1a/19 AND A.4.5-1a/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C40T	IF A.4.1-1/2 AND A.4.1-1/7 AND A.4.5-1b/5 AND A.4.5-1b/19 AND A.4.5-1b/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C41	Void
C42F	IF A.4.1-1/1 AND A.4.1-1/3 AND A.4.5-1a/12 AND A.4.5-1a/26 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C42T	IF A.4.1-1/2 AND A.4.1-1/3 AND A.4.5-1b/12 AND A.4.5-1b/26 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C44F	IF A.4.1-1/1 AND A.4.1-1/3 AND A.4.5-1a/5 AND A.4.5-1a/19 AND A.4.5-1a/26 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C44T	IF A.4.1-1/2 AND A.4.1-1/3 AND A.4.5-1b/5 AND A.4.5-1b/19 AND A.4.5-1b/26 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C45F	IF (A.4.1-1/1 AND A.4.5-1a/13 AND A.4.5-1a/25 AND A.4.1-2/1) OR (A.4.4-1/122 AND A.4.4-1/141 AND A.4.4-1/142 AND A.4.5-1a/25) THEN R ELSE N/A
C45T	IF (A.4.1-1/2 AND A.4.5-1b/13 AND A.4.5-1b/25 AND A.4.1-2/1) OR (A.4.4-1/122 AND A.4.4-1/141 AND A.4.4-1/142 AND A.4.5-1b/25) THEN R ELSE N/A
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.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/2 AND A.4.4-2/1 THEN R ELSE N/A
C47a	Void
C48	IF (A.4.1-1/1 OR A.4.1-1/2) AND 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 NOT A.4.3.2-2A/1 THEN R ELSE N/A
C49	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/6 AND A.4.4-1/10 AND NOT A.4.3.2-2A/1 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.4.1-1/1 OR A.4.1-1/2) AND [8]A.20/35 THEN R ELSE N/A
C54	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/18 THEN R ELSE N/A
C55	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/19 AND A.4.4-1/54 THEN R ELSE N/A
C56	IF (A.4.1-1/1 OR A.4.1-1/2) 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) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C57	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C58F	IF A.4.1-1/1 AND A.4.5-1a/21 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C58T	IF A.4.1-1/2 AND A.4.5-1b/21 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C59	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.4-1/5 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C60	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND A.4.4-2/2 AND A.4.2.1.1-1/1 AND [8]A.2/1 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C61F	IF A.4.1-1/1 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C61T	IF A.4.1-1/2 AND 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 AND NOT A.4.3.2-2A/1 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/30 AND A.4.5-1b/25 AND A.4.5-1b/30 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C64	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/20 THEN R ELSE N/A
C65	Void
C66	IF (A.4.1-1/1 OR A.4.1-1/2) AND [8]A.1/4 AND A.4.4-1/21 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C67	Void
C68	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/6 AND A.4.4-1/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C69	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/6 AND A.4.4-1/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C70	Void
C71	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/4 THEN R ELSE N/A
C71a	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/4 AND A.4.4-1/2 AND A.4.4-1/49 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C71b	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/4 AND A.4.1-1/6 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C72	Void
C73	Void
C74	Void
C75	Void
C76	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/49 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C77	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.5-2/1 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C78	Void
C79	Void
C80	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/2 AND A.4.4-1/49 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C80a	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-1/103 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C81F	IF A.4.1-1/1 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C81T	IF A.4.1-1/2 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C82	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.4-1/2 AND A.4.5-2/1 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C83	Void
C84	IF (A.4.1-1/1 OR A.4.1-1/2) AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C85	Void
C86	IF (A.4.1-1/1 OR A.4.1-1/2) AND 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
C86a	IF (A.4.1-1/1 OR A.4.1-1/2) AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C87	IF (A.4.1-1/1 OR A.4.1-1/2) AND 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
C87a	Void
C87b	IF (A.4.1-1/1 OR A.4.1-1/2) AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C88	Void
C89	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND A.4.4-1/29 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C90F	IF A.4.1-1/1 AND A.4.1-1/7 AND A.4.5-1a/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A

C90T	IF A.4.1-1/2 AND A.4.1-1/7 AND A.4.5-1b/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C91F	IF A.4.1-1/1 AND A.4.1-1/6 AND A.4.5-1a/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C91T	IF A.4.1-1/2 AND A.4.1-1/6 AND A.4.5-1b/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C92F	IF A.4.1-1/1 AND A.4.1-1/3 AND A.4.5-1a/26 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C92T	IF A.4.1-1/2 AND A.4.1-1/3 AND A.4.5-1b/26 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C93F	IF A.4.1-1/1 AND A.4.1-1/4 AND A.4.5-1a/24 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C93T	IF A.4.1-1/2 AND A.4.1-1/4 AND A.4.5-1b/24 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C94	Void
C95	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND A.4.4-1/2 AND A.4.4-1/49 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C96F	IF A.4.1-1/1 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C96T	IF A.4.1-1/2 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C97	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/30 THEN R ELSE N/A
C97A	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/30 AND A.4.4-2/16 THEN R ELSE N/A
C98	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/18 AND A.4.4-1/30 THEN R ELSE N/A
C99F	IF A.4.1-1/1 AND A.4.4-1/51 AND A.4.5-1a/7 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C99T	IF A.4.1-1/2 AND A.4.4-1/51 AND A.4.5-1b/7 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C100F	IF A.4.1-1/1 AND A.4.4-1/50 AND A.4.5-1a/7 THEN R ELSE N/A
C100T	IF A.4.1-1/2 AND 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 OR A.4.3.2-2/1) THEN R ELSE N/A
C104	IF (A.4.1-1/1 OR A.4.1-1/2) AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C105F	IF A.4.1-1/1 AND 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 NOT A.4.3.2-2A/1 THEN R ELSE N/A
C105T	IF A.4.1-1/2 AND 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 NOT A.4.3.2-2A/1 THEN R ELSE N/A
C106	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/34 AND A.4.4-2/2 THEN R ELSE N/A
C107F	IF A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/52 AND A.4.5-1a/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C107T	IF A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1/52 AND A.4.5-1b/23 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C108	Void
C109	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/4 AND (A.4.4-1/35 OR A.4.4-1/36) THEN R ELSE N/A
C109a	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/4 AND (A.4.4-1/35 OR A.4.4-1/36) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C110F	IF A.4.1-1/1 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C110T	IF A.4.1-1/2 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C111F	IF A.4.1-1/1 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C111T	IF A.4.1-1/2 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A

C112F	IF A.4.1-1/1 AND 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 NOT A.4.3.2-2A/1 THEN R ELSE N/A
C112T	IF A.4.1-1/2 AND 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 NOT A.4.3.2-2A/1 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
C113a	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
C113bF	IF A.4.1-1/1 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
C113bT	IF 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 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.4.1-1/2 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 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.4.1-1/2 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
C113e	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 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
C113gF	IF A.4.1-1/1 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 AND A.4.3.3.3-2/2 THEN R ELSE N/A
C113gT	IF 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 AND A.4.3.3.3-2/2 THEN R ELSE N/A
C114	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND A.4.4-1/39 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C314a	IF (A.4.1-1/1 OR A.4.1-1/2) AND [45]A.12/55 AND [8]A.10/17 THEN R ELSE N/A
C115	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND [8]A.2/1 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C116	Void
C117F	IF A.4.1-1/1 AND 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 A.4.5-1a/8 AND A.4.5-1a/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C117T	IF A.4.1-1/2 AND 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 A.4.5-1b/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C118F	IF A.4.1-1/1 AND A.4.4-1/2 AND A.4.4-1/104 AND A.4.5-1a/25 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C118T	IF A.4.1-1/2 AND A.4.4-1/2 AND A.4.4-1/104 AND A.4.5-1b/25 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C119F	IF A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/100 AND A.4.5-1a/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C119T	IF A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1/2 AND A.4.4-1/100 AND A.4.5-1b/22 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C120F	IF A.4.1-1/1 AND A.4.5-1a/7 AND A.4.4-1/40 AND A.4.4-1/41 THEN R ELSE N/A
C120T	IF A.4.1-1/2 AND A.4.5-1b/7 AND A.4.4-1/40 AND A.4.4-1/41 THEN R ELSE N/A
C121	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-2/2 AND A.4.1-1/6 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C122	Void
C123	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/2 AND A.4.4-2/2 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C124	Void
C125	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-2/2 AND (A.4.4-2/5 OR (A.4.4-2/4 AND A.4.4-1/33)) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C126	IF A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/56 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A

C127	IF A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/57 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C128	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-2/2 AND (A.4.1-1/6 OR A.4.1-1/7) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C129	IF A.4.1-1/1 AND A.4.4-1/58 THEN R ELSE N/A
C130	IF A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1a/25 AND A.4.5-1b/25 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C131	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND NOT A.4.4-1/57 AND NOT A.4.3.2-2A/1 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) AND NOT A.4.3.2-2A/1 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.4.3.3.1-2/1 OR A.4.3.3.1-2/2) THEN R ELSE N/A
C134F	IF A.4.1-1/1 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
C134T	IF 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 AND A.4.3.3.2-1/1 AND A.4.5-3a/11 THEN R ELSE N/A
C134aT	IF 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.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/62 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C138	IF (A.4.1-1/1 OR A.4.1-1/2) AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C139	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.4-1/32 AND A.4.2.1.1-1/4 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C140	Void
C141	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-2/2 AND A.4.4-2/5 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C142	IF A.4.1-1/1 AND A.4.1-1/2 THEN R ELSE N/A
C142a	IF A.4.1-1/1 AND A.4.1-1/2 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C143	IF A.4.4-1/2 AND A.4.4-1/49 AND A.4.4-2/1 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C144F	IF A.4.1-1/1 AND 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 NOT A.4.3.2-2A/1 THEN R ELSE N/A
C144T	IF A.4.1-1/2 AND 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 NOT A.4.3.2-2A/1 THEN R ELSE N/A
C145	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/65 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C146	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND (A.4.4-1/8 OR A.4.4-1/53) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C147	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/63 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C148F	IF A.4.1-1/1 AND A.4.5-1a/23 AND A.4.4-1/29 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C148T	IF A.4.1-1/2 AND A.4.5-1b/23 AND A.4.4-1/29 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C149	Void
C150	IF (((A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6) OR ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.1-1/7)) AND NOT A.4.3.2-2A/1 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 AND A.4.3.3.3-1/1 AND A.4.5-3a/11 THEN R ELSE N/A
C152T	IF 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.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/6 OR A.4.1-1/7) AND A.4.4-2/2 AND A.4.4-1/26 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C154F	IF A.4.1-1/1 AND A.4.5-3a/15 THEN R ELSE N/A
C154T	IF A.4.1-1/2 AND A.4.5-3b/15 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A

C155F	IF A.4.1-1/1 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.4.3.3.1-1/1 OR A.4.3.3.1-1/2) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C155T	IF 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.4.3.3.1-1/1 OR A.4.3.3.1-1/2) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C155aF	IF A.4.1-1/1 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.4.3.3.3-1/1 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C155aT	IF 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.4.3.3.3-1/1 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C155bF	IF A.4.1-1/1 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C155bT	IF 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C156	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/2 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C157	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/69 THEN R ELSE N/A
C157a	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/69 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C158	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/70 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C159F	IF A.4.1-1/1 AND A.4.1-1/6 AND A.4.5-1a/27 AND A.4.4-1/33 AND [45]A.12/34 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C159T	IF A.4.1-1/2 AND A.4.1-1/6 AND A.4.5-1b/27 AND A.4.4-1/33 AND [45]A.12/34 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C160F	IF A.4.1-1/1 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C160T	IF A.4.1-1/2 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C161F	IF A.4.1-1/1 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C161T	IF A.4.1-1/2 AND 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 AND NOT A.4.3.2-2A/1 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 AND A.4.3.3.3-2/2 THEN R ELSE N/A
C163	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND A.4.4-1/29 AND A.4.4-1/62 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C164	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/72 AND A.4.4-2/2 AND NOT (A.4.4-2/32) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C165	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/3 AND A.4.4-1/62 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C166F	IF A.4.1-1/1 AND A.4.5-1a/14 THEN R ELSE N/A
C166T	IF A.4.1-1/2 AND A.4.5-1b/14 THEN R ELSE N/A
C167F	IF A.4.1-1/1 AND A.4.5-1a/14 AND A.4.5-1a/25 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C167T	IF A.4.1-1/2 AND A.4.5-1b/14 AND A.4.5-1b/25 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C168F	IF A.4.1-1/1 AND A.4.1-1/6 AND A.4.5-1a/15 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C168T	IF A.4.1-1/2 AND A.4.1-1/6 AND A.4.5-1b/15 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C169	Void
C170	IF A.4.1-1/1 AND A.4.4-1/76 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C171	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND A.4.4-1/79 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C172	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/4 AND A.4.4-1/37 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C173	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/80 AND A.4.4-2/1 THEN R ELSE N/A
C174	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/81 THEN R ELSE N/A

C175	IF A.4.1-1/2 AND A.4.4-1A/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.4.1-1/1 OR A.4.1-1/2) AND [8]A.10/31 THEN R ELSE N/A
C179	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/84 AND NOT A.4.4-1/138 THEN R ELSE N/A
C179a	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/84 AND NOT A.4.3.2-2A/1 AND NOT (A.4.4-1/138) 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C181	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/85 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C182	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND [8]A.2/2 AND NOT A.4.2.1.1-1/4 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C183	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.4-1/33 OR A.4.4-1/145) 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)) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C185F	IF A.4.1-1/1 AND A.4.5-1a/13 AND A.4.5-1a/25 AND A.4.1-2/1 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C185T	IF A.4.1-1/2 AND A.4.5-1b/13 AND A.4.5-1b/25 AND A.4.1-2/2 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C186F	IF (A.4.1-1/1 AND A.4.5-1a/25 AND A.4.1-2/1) OR (A.4.4-1/122 AND A.4.4-1/141 AND A.4.4-1/142 AND A.4.5-1a/25) THEN R ELSE N/A
C186T	IF (A.4.1-1/2 AND A.4.5-1b/25 AND A.4.1-2/2) OR (A.4.4-1/122 AND A.4.4-1/141 AND A.4.4-1/142 AND A.4.5-1b/25) THEN R ELSE N/A
C187	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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C189F	IF A.4.1-1/1 AND A.4.5-1a/31 THEN R ELSE N/A
C189T	IF A.4.1-1/2 AND A.4.5-1b/31 THEN R ELSE N/A
C189aF	IF A.4.1-1/1 AND A.4.5-1a/31 AND [8]A.1/1 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C189aT	IF A.4.1-1/2 AND A.4.5-1b/31 AND [8]A.1/1 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C189bF	IF A.4.1-1/1 AND A.4.5-1a/31 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C189bT	IF A.4.1-1/2 AND A.4.5-1b/31 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C189cF	IF A.4.1-1/1 AND A.4.5-1a/31 AND A.4.1-1/6 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C189cT	IF A.4.1-1/2 AND A.4.5-1b/31 AND A.4.1-1/6 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C190	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.3.1-2/1 OR A.4.3.3.1-2/2) AND A.4.4-1A/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.4.4-1A/3 AND A.4.3.3.3-2/2 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.4.4-1A/3 THEN R ELSE N/A
C193F	IF A.4.1-1/1 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C193T	IF A.4.1-1/2 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C194	IF (A.4.1-1/1 OR A.4.1-1/2) AND [8]A.10/31 AND A.4.4-1A/4 THEN R ELSE N/A
C195	IF (A.4.1-1/1 OR A.4.1-1/2) AND [8]A.10/31 AND [8]A.10/37 AND A.4.4-2/1 THEN R ELSE N/A
C196	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/19 AND A.4.4-1/54 AND [8]A.10/31 AND [8]A.10/37 THEN R ELSE N/A
C197	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1A/4 AND [8]A.10/31 AND A.4.4-1/91 AND A.4.4-2/1 THEN R ELSE N/A
C198F	IF A.4.1-1/1 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C198T	IF A.4.1-1/2 AND 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.12/36 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A

C199F	IF A.4.1-1/1 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C199T	IF A.4.1-1/2 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C200F	IF A.4.1-1/1 AND 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.12/34 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C200T	IF A.4.1-1/2 AND 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.12/34 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C201F	IF A.4.1-1/1 AND A.4.1-1/6 AND A.4.5-1a/27 AND A.4.4-1/33 AND [45]A.12/36 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C201T	IF A.4.1-1/2 AND A.4.1-1/6 AND A.4.5-1b/27 AND A.4.4-1/33 AND [45]A.12/36 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C202F	IF A.4.1-1/1 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C202T	IF A.4.1-1/2 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C203	Void
C203a	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/62 AND A.4.4-1/63 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C204	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/30 AND [8]A.10/31 AND [8]A.10/37 THEN R ELSE N/A
C205	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND (A.4.4-1/8 OR A.4.4-1/53) AND A.4.4-1/94 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C206F	IF A.4.1-1/1 AND 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.4.1-1/2 AND 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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C209	IF (A.4.1-1/1 OR A.4.1-1/2) AND 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.4.1-1/1 OR A.4.1-1/2) AND 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.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/33 AND A.4.4-2/14 THEN R ELSE N/A
C212	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/97 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C213	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/98 THEN R ELSE N/A
C214	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND NOT A.4.4-1/98 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C215	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/99 THEN R ELSE N/A
C216F	IF A.4.1-1/1 AND A.4.5-1a/4 AND A.4.5-1a/5 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C216T	IF A.4.1-1/2 AND A.4.5-1b/4 AND A.4.5-1b/5 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C217	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.4-1/33 AND [45]A.12/40 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C218	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.4-1/33 AND [45]A.12/40 AND [45]A.12/41 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C219	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND A.4.4-1/33 AND [45]A.12/40 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C220	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND A.4.4-1/33 AND [45]A.12/40 AND [45]A.12/41 AND NOT A.4.3.2-2A/1 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 (A.4.1-1/1 OR A.4.1-1/2) AND [45]A.3A/50 AND [45]A.4/2B AND [45]A.15/3 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C224	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.2-2/1 THEN R ELSE N/A
C224a	IF (A.4.1-1/1 OR A.4.1-1/2) AND NOT (A.4.3.2-2/1 OR A.4.3.2-2A/1) THEN R ELSE N/A
C224b	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.2-2/1 OR A.4.3.2-2A/1) THEN R ELSE N/A
C224c	IF (A.4.1-1/1 OR A.4.1-1/2) AND NOT A.4.3.2-2A/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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C225a	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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C226	Void
C227	IF A.4.1-1/1 AND A.4.4-1/51 AND A.4.4-1/107 AND A.4.5-1a/7 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C228	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/51 AND NOT A.4.3.2-2/1 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C228a	IF (A.4.1-1/1 OR A.4.1-1/2) AND 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/31 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C230	IF A.4.1-1/2 AND NOT A.4.5-1b/31 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C231	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND A.4.4-1/32 AND A.4.2.1.1-1/4 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C232	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND A.4.4-1/33 AND [45]A.12/40 AND A.4.4-1/30 AND NOT A.4.3.2-2A/1 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 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
C234a	IF A.4.1-1/1 AND A.4.1-1/2 AND A.4.3.3-1/1 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
C235a	IF A.4.1-1/1 AND A.4.1-1/2 AND A.4.3.3-1/1 AND A.4.4-1/109 THEN R ELSE N/A
C236	IF (A.4.1-1/1 OR A.4.1-1/2) AND [45]A.3A/50 AND [45]A.4/2B AND [45]A.15/1 THEN R ELSE N/A
C237	IF (A.4.1-1/1 OR A.4.1-1/2) AND [45]A.3A/50 AND [45]A.4/2B AND [45]A.15/1 AND [45]A.15/3 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C238	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/110 THEN R ELSE N/A
C239	Void
C240	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/120 THEN R ELSE N/A
C241	Void
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	Void
C244	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/9 THEN R ELSE N/A
C245	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/10 THEN R ELSE N/A
C246	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/9 AND A.4.2.1.1-1/10 THEN R ELSE N/A
C247	IF (A.4.1-1/1 OR A.4.1-1/2) AND 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 OR A.4.3.2-2/12 OR A.4.3.2-2/13 OR A.4.3.2-2/14 OR A.4.3.2-2/15 OR A.4.3.2-2/16) AND A.4.4-1/116 THEN R ELSE N/A
C249	IF (A.4.1-1/1 OR A.4.1-1/2) AND (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 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C250	IF (A.4.1-1/1 OR A.4.1-1/2) AND [8]A.10/31 AND A.4.4-2/1 THEN R ELSE N/A
C251	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/118 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C252	VOID

C253	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/121 AND A.4.4-1/115 THEN R ELSE N/A
C254	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.4-1/122 OR A.4.4-1/123) THEN R ELSE N/A
C254a	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/122 THEN R ELSE N/A
C254b	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.4-1/122 OR A.4.4-1/123) AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C254c	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/122 AND A.4.4-1/141 AND A.4.4-1/142 THEN R ELSE N/A
C255	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/123 THEN R ELSE N/A
C256	IF A.4.1-1/2 AND A.4.4-1/124 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C257	IF A.4.1-1/1 AND A.4.5-1a/31 AND A.4.4-1/125 AND A.4.3.3.3-1/1 THEN R ELSE N/A
C258	IF A.4.1-1/2 AND A.4.5-1b/31 AND A.4.4-1/125 AND A.4.3.3.3-1/1 THEN R ELSE N/A
C259	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/11 THEN R ELSE N/A
C259cF	IF A.4.1-1/1 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.4.2.1.1-1/11 AND A.4.4-1/126 AND A.4.4-1/127 THEN R ELSE N/A
C259cT	IF 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.4.2.1.1-1/11 AND A.4.4-1/126 AND A.4.4-1/127 THEN R ELSE N/A
C259dF	IF A.4.1-1/1 AND A.4.3.3.3-1/1 AND A.4.5-1a/13 AND A.4.5-1a/25 AND A.4.2.1.1-1/11 AND A.4.4-1/126 AND A.4.4-1/127 THEN R ELSE N/A
C259dT	IF 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.4.2.1.1-1/11 AND A.4.4-1/126 AND A.4.4-1/127 THEN R ELSE N/A
C259e	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.4.2.1.1-1/11 AND A.4.4-1/126 AND A.4.4-1/127 THEN R ELSE N/A
C259f	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3.3.3-1/1 AND A.4.2.1.1-1/11 AND A.4.4-1/126 AND A.4.4-1/127 THEN R ELSE N/A
C259gF	IF A.4.1-1/1 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.4.2.1.1-1/11 AND A.4.4-1/126 THEN R ELSE N/A
C259gT	IF 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.4.2.1.1-1/11 AND A.4.4-1/126 THEN R ELSE N/A
C259hF	IF A.4.1-1/1 AND A.4.3.3.3-1/1 AND A.4.5-1a/13 AND A.4.5-1a/25 AND A.4.2.1.1-1/11 AND A.4.4-1/126 THEN R ELSE N/A
C259hT	IF 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.4.2.1.1-1/11 AND A.4.4-1/126 THEN R ELSE N/A
C260	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/128 THEN R ELSE N/A
C261	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1A/4 AND [8]A.10/31 AND A.4.4-2/1 THEN R ELSE N/A
C262	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/121 THEN R ELSE N/A
C263	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/121 AND A.4.2.1.1-1/4 THEN R ELSE N/A
C264	IF A.4.1-1/2 AND A.4.4-1/124 AND A.4.3.3.3-1/1 THEN R ELSE N/A
C265	IF A.4.1-1/2 AND A.4.4-1/124 AND A.4.3.3.3-2/1 THEN R ELSE N/A
C266	IF A.4.1-1/8 THEN R ELSE N/A
C267	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/12 THEN R ELSE N/A
C268	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1A/7 AND A.4.4-1A/8 THEN R ELSE N/A
C269	IF A.4.1-1/5 AND A.4.4-1/117 THEN R ELSE N/A
C270	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4 -1/131 THEN R ELSE NA
C271	IF A.4.1-1/8 AND A.4.4-1/132 THEN R ELSE N/A
C272	IF A.4.1-1/8 AND A.4.4-1/99 THEN R ELSE N/A
C273	IF A.4.1-1/8 AND A.4.4-1/121 THEN R ELSE N/A
C274	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/13 THEN R ELSE N/A
C275	IF A.4.1-1/8 AND [8]A.10/31 AND [8]A.10/37 THEN R ELSE N/A

C276	Void
C277	IF A.4.1-1/8 AND A.4.4-1/30 AND [8]A.10/31 AND [8]A.10/37 THEN R ELSE N/A
C278	Void
C279	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/129 AND A.4.4-1/130 THEN R ELSE N/A
C280	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/129 THEN R ELSE N/A
C281	IF A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1/139 AND NOT A.4.3.2-2A/1 THEN R ELSE N/A
C282	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/140 THEN R ELSE N/A
C283	IF (A.4.1-1/1 OR A.4.1-1/2) AND [8]A.20/35 AND NOT A.4.4-1/25 THEN R ELSE N/A
C284	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/143 THEN R ELSE N/A
C285	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/132 THEN R ELSE N/A
C286	IF(A.4.1-1/1 OR A.4.1-1/2) AND NOT (A.4.3.2-2A/1) AND A.4.4-1/2 AND A.4.4-2/1 THEN R ELSE N/A
C287	IF(A.4.1-1/1 OR A.4.1-1/2) AND NOT (A.4.3.2-2A/1) AND 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
C288	IF A.4.1-1/8 AND A.4.4-1A/10 THEN R ELSE N/A
C289	Void
C290	IF A.4.1-1/8 AND (A.4.4-1/132 OR A.4.4-1/144) THEN R ELSE N/A
C291	IF A.4.1-1/8 AND (A.4.4-1/132 OR A.4.4-1/144) AND A.4.4-1/99 THEN R ELSE N/A
C292	Void
C293	IF A.4.1-1/8 AND A.4.4-2/24 AND A.4.4-1/19 THEN R ELSE N/A
C294	Void
C295	IF(A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/14 THEN R ELSE N/A
C296	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.2-1/5 OR A.4.3.2-1/6 OR A.4.3.2-1/7 OR A.4.3.2-1/9 OR A.4.3.2-1/10 OR A.4.3.2-1/11 OR A.4.3.2-1/12 OR A.4.3.2-2/10 OR A.4.3.2-2/11 OR A.4.3.2-2/13 OR A.4.3.2-2/14 OR A.4.3.2-2/15 OR A.4.3.2-2/16) AND A.4.4-1/159 THEN R ELSE N/A
C297	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.4.3.2-2/8 OR A.4.3.2-2/10 OR A.4.3.2-2/11 OR A.4.3.2-2/13 OR A.4.3.2-2/14 OR A.4.3.2-2/15 OR A.4.3.2-2/16) AND A.4.4-1/159 AND A.4.4-1/116 THEN R ELSE N/A
C298	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/160 THEN R ELSE N/A
C299	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/161 THEN R ELSE N/A
C300	Void
C301	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3.3-1/1 OR A.4.3.3-1/2 OR A.4.3.3-1/3 OR A.4.3.3-1/4) AND (A.4.3.3-2/1 OR A.4.3.3-2/2) AND A.4.4-1/163 THEN R ELSE N/A
C302	IF A.4.4-1/148 THEN R ELSE N/A
C303	IF A.4.4-1/148 AND A.4.4-1/153 THEN R ELSE N/A
C304	IF A.4.4-1/148 AND A.4.4-1/155 THEN R ELSE N/A
C305	IF A.4.4-1/148 AND A.4.4-1/156 THEN R ELSE N/A
C306	IF A.4.4-1/148 AND A.4.4-1/157 THEN R ELSE N/A
C307	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/148 THEN R ELSE N/A
C308	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/148 AND A.4.4-1/152 THEN R ELSE N/A
C309	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/148 AND A.4.4-1/153 THEN R ELSE N/A
C310	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/148 AND A.4.4-1/155 THEN R ELSE N/A
C311	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/148 AND A.4.4-1/156 THEN R ELSE N/A
C312	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/148 AND A.4.4-1/157 THEN R ELSE N/A
C313	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/164
C314	IF (A.4.1-1/1 OR A.4.1-1/2) AND [45]A.12/55 AND [8]A.10/16 THEN R ELSE N/A

C315	IF (A.4.1-1/1 OR A.4.1-1/2) AND [45]A.12/55 AND [8]A.10/16 AND [8]A.10/19 THEN R ELSE N/A
C316	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/6 OR A.4.1-1/7) AND [45]A.12/54 AND [8]A.10/17 AND A.4.2.1.1-1/4 THEN R ELSE N/A
C317	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/6 OR A.4.1-1/7) AND [45]A.12/55 AND [8]A.10/17 THEN R ELSE N/A
C318	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/6 AND [45]A.12/55 AND [8]A.10/16 THEN R ELSE N/A
C319	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/7 AND [45]A.12/55 AND [8]A.10/16 THEN R ELSE N/A
C320	IF A.4.1-1/1 AND A.4.3.3-1/1 AND A.4.4-1/109 AND A.4.4-1/166 THEN R ELSE N/A
C321	IF A.4.1-1/2 AND A.4.3.3-1/1 AND A.4.4-1/166 THEN R ELSE N/A
C322	IF A.4.1-1/8 AND A.4.4-1/165 THEN R ELSE N/A
C323	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/8 THEN R ELSE N/A
C324	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/120 AND A.4.4-1/169 THEN R ELSE N/A
C325	IF A.4.4-1/173 THEN R ELSE N/A
C326	IF A.4.4-1/172 THEN R ELSE N/A
C327	IF (A.4.4-1/170 OR A.4.4-1/171) THEN R ELSE N/A
C328	IF A.4.4-1/148 AND A.4.4-1/153 AND A.4.4-1/156 THEN R ELSE N/A
C329	Void
C330	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/174 THEN R ELSE N/A
C331	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/174 AND A.4.4-1/70 THEN R ELSE N/A
C332	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/174 AND A.4.4-1/176 THEN R ELSE N/A
C333	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/174 AND A.4.4-1/70 AND A.4.4-1/176 THEN R ELSE N/A
C334	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/161 THEN R ELSE N/A
C335	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/161 AND A.4.4-1/162 THEN R ELSE N/A
C336	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/149 AND A.4.4-1/177 THEN R ELSE N/A
C337	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/5 AND A.4.4-1/149 THEN R ELSE N/A
C338	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2.1.1-1/11 AND A.4.4-1/149 THEN R ELSE N/A
C339	IF A.4.1-1/8 AND A.4.4-1/167 AND A.4.3.2-1A/2 THEN R ELSE N/A
C340	IF A.4.1-1/8 AND A.4.4-2/23 THEN R ELSE N/A
C341	IF A.4.1-1/8 THEN R ELSE N/A
C342	IF A.4.1-1/8 AND A.4.4-2/27 AND A.4.4-2/31 THEN R ELSE N/A
C343	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/148 AND A.4.4-1/154 AND A.4.4-1/178 THEN R ELSE N/A
C344	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/148 AND NOT(A.4.4-1/154) AND A.4.4-1/178 THEN R ELSE N/A
C345	IF A.4.4-1/148 AND A.4.4-1/178 THEN R ELSE N/A
C346	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.4-1/148 AND A.4.4-1/178 THEN R ELSE N/A
C347	IF A.4.1-1/8 AND A.4.3.2-1A/2 THEN R ELSE N/A
C348	IF A.4.1-1/8 AND A.4.4-1A/11 THEN R ELSE N/A
C349	IF A.4.1-1/8 AND A.4.4-1A/12 THEN R ELSE N/A
C350	IF A.4.1-1/8 AND A.4.2.1.1-1/15 THEN R ELSE N/A
C351	IF A.4.1-1/8 AND A.4.2.1.1-1/11 AND (A.4.5-1a/3 or A.4.5-1b/3) AND (A.4.5-1a/7 or A.4.5-1b/7) 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:	Void.
Note 13:	If extended long DRX cycle test case is executed, the Rel-8 long DRX cycle test case can be considered implicitly tested.
Note 14:	For UEs supporting IMS, it is recommended to execute this test case with pc_SMS_IP_MT=FALSE.
Note 15:	Void.
Note 16:	Void.
Note 17:	This TC can optionally be executed by Rel-10 UE and onwards till the release indicated in the Release column.
Note 18:	For UE which supports both Attach without PDN (i.e. pc_AttachWithoutPDN=TRUE) and Attach with PDN (i.e. pc_AttachWithPDN=TRUE), this TC shall be executed 2 times: once with px_DoAttachWithoutPDN=TRUE, and, once with px_DoAttachWithoutPDN=FALSE.
Note 19:	Test case is not intended to be run with UEs supporting GSMA PRD IR.92 [33] (A.4.4-1/33) or GSMA PRD NG.108 [55].

Note 20: Void

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

A.1 Guidance for completing the ICS proforma

A.1.1 Purposes and structure

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

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

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

A.1.2 Abbreviations and conventions

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

.....

.....

.....

Software configuration:

.....

.....

.....

A.2.3 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.5 ICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

A.3 Identification of the protocol

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

A.4 ICS proforma tables

A.4.1 UE Implementation Types

Table A.4.1-1: UE Radio Technologies

Item	UE Radio Technologies	Ref.	Release	Mnemonic	Comments
1	E-UTRA FDD	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 802.11		pc_eWLAN	
6	UTRA	21.904, 5	R99	pc_UTRA	
7	GERAN	21.904, 5	R99	pc_GERAN	
8	NB-IoT	36.101	Rel-13	pc_NB	

Table A.4.1-2: UE general functionality

Item	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	

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

Item	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_LCR, 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_Attach shall be set to true
3	Void				
4	Support of IMS emergency call	22.101	Rel-9	pc_IMS_emergency_call	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	Void				
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.
11	Support of SC-PTM	36.306 4.3.22.2	Rel-13	pc_SCPTM	The UE supports SC-PTM
12	Support of LTE-WLAN aggregation	36.306 4.3.25.1	Rel-13	pc_LWA	The UE supports LWA
13	Support of LTE/WLAN Radio Level Integration with IPsec Tunnel	36.306 4.3.24.1	Rel-13	pc_LWIP	The UE supports LWIP

14	Support of data inactivity monitoring	36.306 4.3.19.9	Rel-14	pc_dataInactMon	The UE supports data inactivity monitoring
15	Support of SC-PTM in Idle mode	36.306 6.16.1	Rel-14	pc_SCPTM_IDLE	The UE supports SC-PTM in Idle mode
Note 1: A UE may support one or more of bearer service 1, 2, 3, 4 or 5. Note 2: See [19] subclause 17.4 for general assumptions of the MBMS service Continuity test cases.					

A.4.3 Baseline Implementation Capabilities

Table A.4.3-1: Supported protocols

Item	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_LocationInformation	

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].

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

Item	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	Band 17
18	Frequency band: 815-830, 860-875 MHz	36.101, 5.5	Rel-9	pc_eBand18_Supp	Band 18
19	Frequency band: 830-845, 875-890 MHz	36.101, 5.5	Rel-9	pc_eBand19_Supp	Band 19
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	Frequency band: 814-849, 859-894 MHz	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
33	Frequency band: 1920-2010, 2110-2200 MHz	36.101, 5.5	Rel-13	pc_eBand65_Supp	Band 65
34	Frequency band: 1710-1780, 2110-2200 MHz	36.101, 5.5	Rel-13	pc_eBand66_Supp	Band 66
…					
36	Frequency band: 698-728, 753-783 MHz	36.101, 5.5	Rel-15	pc_eBand68_Supp	Band 68
37	Frequency band: N/A, 2570-2620 MHz	36.101, 5.5	Rel-14	pc_eBand69_Supp	Band 69
38	Frequency band: 1695-1710, 1995-2020 MHz	36.101, 5.5	Rel-14	pc_eBand70_Supp	Band 70
39	Frequency band: 663-698, 614-652 MHz	36.101, 5.5	Rel-15	pc_eBand71_Supp	Band 71
40	Frequency band: 451-456, 461-466 MHz	36.101, 5.5	Rel-15	pc_eBand72_Supp	Band 72
...					
42	Frequency band: 1427-1470, 1475-1518 MHz	36.101, 5.5	Rel-15	pc_eBand74_Supp	Band 74

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

Item	TDD RF Baseline Implementation Capabilities	Ref.	Release	Mnemonic	Comments
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
13	Frequency band: 1447-1467 MHz	36.101, 5.5	Rel-13	pc_eBand45_Supp	Band 45
14	Frequency band: 5150-5925 MHz	36.101, 5.5	Rel-13	pc_eBand46_Supp	Band 46
15	Frequency band: 5855-5925 MHz	36.101, 5.5	Rel-14	pc_eBand47_Supp	Band 47
16	Frequency band: 3550-3700 MHz	36.101, 5.5	Rel-14	pc_eBand48_Supp	Band 48

A.4.3.2 Physical Layer Baseline Implementation Capabilities

Table A.4.3.2-1: UE Category

Item	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_10	
11	Category 11	36.306, 4.1	Rel-11	pc_ue_Category_11	
12	Category 12	36.306, 4.1	Rel-11	pc_ue_Category_12	

Table A.4.3.2-1A: Additional UE Category

Item	UE Category	Ref.	Release	Mnemonic	Comments
1	Category NB1	36.306, 4.1C	Rel-13	pc_ue_Category_NB1	
2	Category NB2	36.306, 4.1C	Rel-14	pc_ue_Category_NB2	

Table A.4.3.2-2: UE Downlink 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
1A	Category DL 4	36.306, 4.1A	Rel-12	pc_ue_CategoryDL_4	Only in combination with Category UL 5
2	Category DL 6	36.306, 4.1A	Rel-12	pc_ue_CategoryDL_6	Only in combination with Category UL 5 or Category UL 16
3	Category DL 7	36.306, 4.1A	Rel-12	pc_ue_CategoryDL_7	Only in combination with Category UL 13 or Category UL 18
4	Category DL 9	36.306, 4.1A	Rel-12	pc_ue_CategoryDL_9	Only in combination with Category UL 5 or Category UL 16
5	Category DL 10	36.306, 4.1A	Rel-12	pc_ue_CategoryDL_10	Only in combination with Category UL 13 or Category UL 18
6	Category DL 11	36.306, 4.1A	Rel-12	pc_ue_CategoryDL_11	Only in combination with Category UL 5 or Category UL 16
7	Category DL 12	36.306, 4.1A	Rel-12	pc_ue_CategoryDL_12	Only in combination with Category UL 13 ot Category UL 15 or Category UL 18 or Category UL 20
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 or Category UL 16 or Category UL 18
9	Category DL 14	36.306, 4.1A	Rel-12	pc_ue_CategoryDL_14	Only in combination with Category UL 8 or Category UL 17
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 or Category UL 16 or Category UL 18
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 or Category UL 15 or Category UL 16 or Category UL 18 or Category UL 20
12	Category DL 17	36.306, 4.1A	Rel-13	pc_ue_CategoryDL_17	Only in combination with Category UL 14 or Category UL 19
13	Category DL 18	36.306, 4.1A	Rel-13	pc_ue_CategoryDL_18	Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13 or Category UL 15 or Category UL 16 or Category UL 18 or Category UL 20

14	Category DL 19	36.306, 4.1A	Rel-13	pc_ue_CategoryDL_19	Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13 or Category UL 15 or Category UL 16 or Category UL 18 or Category UL 20 or Category UL 21
15	Category DL 20	36.306, 4.1A	Rel-14	pc_ue_CategoryDL_20	Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13 or Category UL 15 or Category UL 16 or Category UL 18 or Category UL 20 or Category UL 21
16	Category DL 21	36.306, 4.1A	Rel-14	pc_ue_CategoryDL_21	Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13 or Category UL 15 or Category UL 16 or Category UL 18 or Category UL 20

Table A.4.3.2-2A: Additional UE Downlink Category

Item	UE Category	Ref.	Release	Mnemonic	Comments
1	Category DL M1	36.306, 4.1A	Rel-13	pc_ue_CategoryDL_M1	Only in combination with Category UL M1
2	Category DL 1bis	36.306, 4.1A	Rel-13	pc_ue_CategoryDL_1bis	Only in combination with Category UL 1bis and Category 1 UE

Table A.4.3.2-3: UE Uplink Category

Item	UE Category	Ref.	Release	Mnemonic	Comments
1	Category UL 0	36.306, 4.1A	Rel-12	pc_ue_CategoryUL_0	Only in combination with Category DL 0
2	Category UL 3	36.306, 4.1A	Rel-12	pc_ue_CategoryUL_3	Only in combination with Category DL 13 or Category DL 15 or Category DL 16 or Category DL 18 or Category DL 19
3	Category UL 5	36.306, 4.1A	Rel-12	pc_ue_CategoryUL_5	Only in combination with Category DL 4 or Category DL 6 or Category DL 9 or Category DL 11 or Category DL 13 or Category DL 15 or Category DL 16 or Category DL 18 or Category DL 19 or Category DL 20
4	Category UL 7	36.306, 4.1A	Rel-12	pc_ue_CategoryUL_7	Only in combination with Category DL 13 or Category DL 15 or Category DL 16 or Category DL 18 or Category DL 19 or Category DL 20
5	Category UL 8	36.306, 4.1A	Rel-12	pc_ue_CategoryUL_8	Only in combination with Category DL 14
6	Category UL 13	36.306, 4.1A	Rel-12	pc_ue_CategoryUL_13	Only in combination with Category DL 7 or Category DL 10 or Category DL 12 or Category DL 13 or Category DL 15 or Category DL 16 or Category DL 18 or Category DL 19 or Category DL 20
7	Category UL 14	36.306, 4.1A	Rel-13	pc_ue_CategoryUL_13	Only in combination with Category DL 17
8	Category UL 15	36.306, 4.1A	Rel-13	pc_ue_CategoryUL_15	Only in combination with Category DL 12 or Category DL 16 or Category DL 18 or Category DL 19 or Category DL 20
9	Category UL 16	36.306, 4.1A	Rel-14	pc_ue_CategoryUL_16	Only in combination with Category DL 6 or Category DL 9 or Category DL 11 or Category DL 13 or Category DL 15 or Category DL 16 or Category DL 18 or Category DL 19 or Category DL 20
10	Category UL 17	36.306, 4.1A	Rel-14	pc_ue_CategoryUL_17	Only in combination with Category DL 14

11	Category UL 18	36.306, 4.1A	Rel-14	pc_ue_CategoryUL_18	Only in combination with Category DL 7 or Category DL 10 or Category DL 12 or Category DL 13 or Category DL 15 or Category DL 16 or Category DL 18 or Category DL 19 or Category DL 20
12	Category UL 19	36.306, 4.1A	Rel-14	pc_ue_CategoryUL_19	Only in combination with Category DL 17
13	Category UL 20	36.306, 4.1A	Rel-14	pc_ue_CategoryUL_20	Only in combination with Category DL 12 or Category DL 16 or Category DL 18 or Category DL 19 or Category DL 20
14	Category UL 21	36.306, 4.1A	Rel-14	pc_ue_CategoryUL_21	Only in combination with Category DL 19 or Category DL 20

Table A.4.3.2-3A: Additional UE Uplink Category

Item	UE Category	Ref.	Release	Mnemonic	Comments
1	Category UL M1	36.306, 4.1A	Rel-13	pc_ue_CategoryUL_M1	Only in combination with Category DL M1
2	Category UL 1bis	36.306, 4.1A	Rel-13	pc_ue_CategoryUL_1bis	Only in combination with Category DL 1bis

A.4.3.3 CA Physical Layer Baseline Implementation Capabilities

Table A.4.3.3-1: Downlink CA capabilities

Item	Bandwidth Class	Ref.	Mnemonic	Comments
1	DL CA with 2 carriers	36.101, 5.6A 36.331, 6.3.6	pc_DL_CA_2Carriers	Note 1
2	DL CA with 3 carriers	36.101, 5.6A 36.331, 6.3.6	pc_DL_CA_3Carriers	Note 2
3	DL CA with 4 carriers	36.101, 5.6A 36.331, 6.3.6		
4	DL CA with 5 carriers	36.101, 5.6A 36.331, 6.3.6		

Note 1: support for one or more of the DL 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, A.4.3.3.3-5

Note 2: support for one or more of the DL CA configurations in Tables A.4.3.3.3-3, A.4.3.3.3-4, A.4.3.3.3-5.

Table A.4.3.3-2: Uplink CA capabilities

Item	Bandwidth Class	Ref.	Mnemonic	Comments
1	UL CA with 2 carriers	36.101, 5.6A 36.331, 6.3.6	pc_UL_CA_2Carriers	Note 1
2	UL CA with 3 carriers	36.101, 5.6A 36.331, 6.3.6	pc_UL_CA_3Carriers	Note 2. Not used in any valid CA configurations in TS 36.101 yet
Note 1: support for one or more of the UL 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, A.4.3.3.3-5 Note 2: support for one or more of the UL CA configurations in Tables A.4.3.3.3-3, A.4.3.3.3-4, A.4.3.3.3-5.				

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

Item	Bandwidth Class	Ref.	Mnemonic	Comments
1	DL Intra-band contiguous CA BW Class B	36.101, 5.6A 36.331, 6.3.6	pc_DL_intraBand_contCaBWclassB	Note 1
2	DL Intra-band contiguous CA BW Class C	36.101, 5.6A 36.331, 6.3.6	pc_DL_intraBand_contCaBWclassC	Note 2
Note 1: support for one or more of the CA configurations in Tables A.4.3.3.1-3 with DL CA Bandwidth Class B. Note 2: support for one or more of the CA configurations in Tables A.4.3.3.1-3 with DL CA Bandwidth Class C.				

Table A.4.3.3.1-2: Uplink Intra-band contiguous CA Bandwidth Class capabilities

Item	Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Intra-band contiguous CA BW Class B	36.101, 5.6A 36.331, 6.3.6	pc_UL_intraBand_contCaBWclassB	Note 1. Not used in any valid CA configurations in TS 36.101 yet
2	UL Intra-band contiguous CA BW Class C	36.101, 5.6A 36.331, 6.3.6	pc_UL_intraBand_contCaBWclassC	Note 2
Note 1: support for one or more of the CA configurations in Tables A.4.3.3.1-3 with UL CA Bandwidth Class B. Note 2: support for one or more of the CA configurations in Tables A.4.3.3.1-3 with UL CA Bandwidth Class C.				

Table A.4.3.3.1-2A: Uplink Intra-band contiguous CA capability

Item	Bandwidth Class	Ref.	Mnemonic	Comments
1	UL Intra-band contiguous CA Type B	36.101, 5.6A 36.331, 6.3.6	pc_UL_intraBand_contCaTypeB	Note 1, 3
2	UL Intra-band contiguous CA Type C	36.101, 5.6A 36.331, 6.3.6	pc_UL_intraBand_contCaTypeC	Note 2, 3
Note 1: to indicate the support of UL CA for Intra-band contiguous per CA band combination defined in Table A.4.3.3.1-3 with UL CA Bandwidth Class B. Note 2: to indicate the support of UL CA for Intra-band contiguous per CA band combination defined in Table A.4.3.3.1-3 with UL CA Bandwidth Class C. Note 3: The band combination used in conjunction with these PICS items is determined by specific PIXIT px_EUTRA_CA_BandCombination.				

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

E-UTRA CA configuration / Item (Note 1)	Release	Support	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_5B	Rel-13			
CA_7B	Rel-13			
CA_7C	Rel-11			
CA_8B	Rel-13			
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			
CA_66B (NOTE 5)	Rel-13			
CA_66C (NOTE 5)	Rel-13			
CA_70C	Rel-14			

Note 1: Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-1, e.g. 'CA_1C' indicates CA operation on E-UTRA band 1 with DL CA Bandwidth Class C.
Note 2: The UL CA capabilities as per Table A.4.3.3-2can 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 items is 36.101, 5.6A and 36.331, 6.3.6.
Note 5: A UE that supports operating Band 66 (Table A.4.3.1-3) and CA operation in any CA band shall support the DL CA configurations CA_66B, CA_66C and CA_66A-66A, as specified in Note 6, in Table 5.5-1, in TS 36.101 [46].

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

Item	Bandwidth Class Combination	Ref.	Mnemonic	Comments
1	DL Intra-band non-contiguous CA BW Class Combination A-A	36.101, 5.6A 36.331, 6.3.6	pc_DL_intraBand_nonContCaBwClassComb_AA	Note 1

Note 1: support for one or more of the CA configurations in Tables A.4.3.3.2-3 with DL CA Bandwidth Class A-A.

Table A.4.3.3.2-2: Uplink Intra-band non-contiguous CA Bandwidth Class capabilities

Item	Bandwidth Combination class	Ref.	Mnemonic	Comments
1	UL Intra-band non-contiguous CA BW Combination class A-A	36.101, 5.6A 36.331, 6.3.6	pc_UL_intraBand_nonContCaBwClassComb_AA	Note 1

Note 1: support for one or more of the CA configurations in Tables A.4.3.3.2-3 with UL CA Bandwidth Class A-A.

Table A.4.3.3.2-2A: Uplink Intra-band non-contiguous CA capability

Item	Bandwidth Combination class	Ref.	Mnemonic	Comments
1	UL Intra-band non-contiguous CA_A-A	36.101, 5.6A 36.331, 6.3.6	pc_UL_intraBand_nonContCaAA	Note 1, 2
Note 1: to indicate the support of UL CA for Intra-band non-contiguous per CA band combination defined in Table A.4.3.3.2-3 with UL CA Bandwidth Class A-A. Note 2: The band combination used in conjunction with these PICS items is determined by specific PIXIT px_EUTRA_CA_BandCombination.				

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	Rel-12			
CA_3A-3A	Rel-12			
CA_4A-4A	Rel-12			
CA_5A-5A	Rel-13			
CA_7A-7A	Rel-12			
CA_23A-23A	Rel-12			
CA_25A-25A	Rel-11			
CA_41A-41A	Rel-11			
CA_41A-41C	Rel-12			
CA_41C-41A	Rel-12			
CA_42A-42A	Rel-12			
CA_66A-66A (NOTE 5)	Rel-13			
CA_66A-66C	Rel-14			

Note 1: 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.

Note 2: The UL CA capabilities as per Table A.4.3.3.2-2 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 items is 36.101, 5.6A and 36.331, 6.3.6.

Note 5: A UE that supports operating Band 66 (Table A.4.3.1-3) and CA operation in any CA band shall support the DL CA configurations CA_66B, CA_66C and CA_66A-66A, as specified in Note 6, in Table 5.5-1, in TS 36.101 [46].

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

Item	Bandwidth Class Combination	Ref.	Mnemonic	Comments
1	DL Inter-band CA BW Class Combination A-A	36.101, 5.6A 36.331, 6.3.6	pc_DL_interBand_ CaBwClassComb_ AA	Note 1
2	DL Inter-band CA BW Class Combination A-A-A (two bands)	36.101, 5.6A 36.331, 6.3.6		
3	DL Inter-band CA BW Class Combination A-A-A (three bands)	36.101, 5.6A 36.331, 6.3.6		
4	DL Inter-band CA BW Class Combination A-C/C-A or A-B/B-A (two bands)	36.101, 5.6A 36.331, 6.3.6		
5	DL Inter-band CA BW Class Combination A-A where one of the bands is DL-only	36.101, 5.5		
6	DL Inter-band CA BW Class Combination A-A-A-A (four bands)	36.101, 5.6A 36.331, 6.3.6		
7	DL Inter-band CA BW Class Combination A-A-C/C-A-A (three bands)	36.101, 5.6A 36.331, 6.3.6		
8	DL Inter-band CA BW Class Combination A-A-A-C (four bands)	36.101, 5.6A 36.331, 6.3.6		
9	DL Inter-band CA BW Class Combination A-D or C-C or C-B (two bands)	36.101, 5.6A 36.331, 6.3.6		
10	DL Inter-band CA BW Class Combination A-A-C or A-A-B (two bands)	36.101, 5.6A 36.331, 6.3.6		
11	DL Inter-band CA BW Class Combination A-A-A-A (two bands)	36.101, 5.6A 36.331, 6.3.6		
12	DL Inter-band CA BW Class Combination A-A-A-A (three bands)	36.101, 5.6A 36.331, 6.3.6		
13	DL Inter-band CA BW Class Combination A-A-A-C (three bands)	36.101, 5.6A 36.331, 6.3.6		
14	DL Inter-band CA BW Class Combination A-A-A-A-A (five bands)	36.101, 5.6A 36.331, 6.3.6		

Note 1: support for one or more of the CA configurations in Tables A.4.3.3.3-3, A.4.3.3.3-4, A.4.3.3.3-5 with DL Inter-band CA BW Class Combination A-A.

Table A.4.3.3.3-2: Uplink Inter-band CA Bandwidth Class Combination capabilities

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

Note 1: support for one or more of the CA configurations in Tables A.4.3.3.3-3, A.4.3.3.3-4, A.4.3.3.3-5 with UL Inter-band CA BW Class Combination A-A.
Note 2: support of UL CA in each band of the band combination determined by specific IXIT px_EUTRA_CA_BandCombination

Table A.4.3.3.3-2A: Uplink Inter-band CA Bandwidth Class Capability

Item	Bandwidth Combination class	Ref.	Mnemonic	Comments
1	UL Inter-band CA_A-A	36.101, 5.6A 36.331, 6.3.6	pc_UL_interBand_ CaAA	Note 1, 2

Note 1: to indicate the support of UL CA for Inter-band per CA band combination defined in Table A.4.3.3.3-3 with UL Inter-band CA BW Class Combination A-A.
Note 2: The band combination used in conjunction with these PICS items is determined by specific PIXIT px_EUTRA_CA_BandCombination.

Table A.4.3.3.3-3: Supported CA configurations for Inter-band CA (two bands)

E-UTRA CA configuration / Item (Note 1)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2)	Supported UL Bands (Note 5)	Supported Bandwidth Combination Set(s) (Note 3)
CA_1A-3A	Rel-12				
CA_1A-3C	Rel-13				
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				
CA_1A-40A	Rel-13				
CA_1A-41A	Rel-12				
CA_1A-41C	Rel-12				
CA_1A-42A	Rel-12				
CA_1A-42C	Rel-12				
CA_1A-46A	Rel-13				
CA_1C-3A	Rel-14				
CA_2A-2A-5A	Rel-12				
CA_2A-2A-12A	Rel-13				
CA_2A-2A-12B	Rel-13				
CA_2A-2A-13A	Rel-12				
CA_2A-2A-30A	Rel-13				
CA_2A-2A-71A	Rel-15				
CA_2A-4A	Rel-12				
CA_2A-4A-4A	Rel-12				
CA_2A-5A	Rel-12				
CA_2A-5B	Rel-14				
CA_2A-7A	Rel-13				
CA_2A-7A-7A	Rel-14				
CA_2A-7C	Rel-14				
CA_2A-12A	Rel-12				
CA_2A-12B	Rel-12				
CA_2A-13A	Rel-12				
CA_2A-14A	Rel-15				
CA_2A-17A	Rel-11				
CA_2A28A	Rel-13				
CA_2A-29A	Rel-11				
CA_2A-30A	Rel-12				
CA_2A-46A	Rel-13				
CA_2A-66A	Rel-14				
CA_2A-66A-66A	Rel-14				
CA_2A-66C	Rel-14				
CA_2A-71A	Rel-15				
CA_2C-5A	Rel-13				
CA_2C-29A	Rel-12				
CA_2C-66A	Rel-15				
CA_3A-5A	Rel-11				
CA_3A-7B	Rel-13				
CA_3A-7A	Rel-11				
CA_3A-7C	Rel-12				
CA_3A-8A	Rel-11				
CA_3A-11A	Rel-14				
CA_3A-19A	Rel-12				
CA_3A-20A	Rel-11				
CA_3A-26A	Rel-12				
CA_3A-27A	Rel-12				
CA_3A-28A	Rel-12				
CA_3A-32A	Rel-14				
CA_3A-40A	Rel-13				

CA_3A-41A	Rel-13				
CA_3A-42A	Rel-12				
CA_3A-42C	Rel-12				
CA_3A-46A	Rel-13				
CA_3A-69A	Rel-14			3	
CA_3C-5A	Rel-13				
CA_3C-7A	Rel-12				
CA_3C-8A	Rel-14				
CA_4A-5A	Rel-11				
CA_4A-7A	Rel-11				
CA_4A-7C	Rel-14				
CA_4A-4A-5A	Rel-12				
CA_4A-4A-7A	Rel-12				
CA_4A-4A-12A	Rel-12				
CA_4A-4A-13A	Rel-12				
CA_4A-4A-29A	Rel-13				
CA_4A-4A-30A	Rel-13				
CA_4A-4A-71A	Rel-15				
CA_4A-7A-7A	Rel-14				
CA_4A-12A	Rel-11				
CA_4A-12B	Rel-12				
CA_4A-13A	Rel-11				
CA_4A-17A	Rel-11				
CA_4A-27A	Rel-12				
CA_4A-28A	Rel-13				
CA_4A-29A	Rel-11				
CA_4A-30A	Rel-12				
CA_4A-46A	Rel-13				
CA_4A-71A	Rel-15				
CA_5A-5A-66A	Rel-14				
CA_5A-7A	Rel-12				
CA_5A-12A	Rel-11				
CA_5A-13A	Rel-12				
CA_5A-17A	Rel-11				
CA_5A-25A	Rel-12				
CA_5A-30A	Rel-12				
CA_5A-66A-66A	Rel-14				
CA_5B-30A	Rel-14				
CA_5B-66A	Rel-14				
CA_5B-66A-66A	Rel-14				
CA_7A-8A	Rel-12				
CA_7A-12A	Rel-12				
CA_7A-20A	Rel-11				
CA_7A-22A	Rel-13				
CA_7A-28A	Rel-12				
CA_7B-28A	Rel-13				
CA_7A-42A-42A	Rel-13				
CA_7A-46A	Rel-13				
CA_8A-11A	Rel-12				
CA_8A-20A	Rel-11				
CA_8A-27A	Rel-15				
CA_8A-28A	Rel-14			8	
CA_8A-40A	Rel-12				
CA_8A-41A	Rel-13				
CA_8A-41C	Rel-13				
CA_8A-42A	Rel-13				
CA_8A-42C	Rel-13				
CA_11A-18A	Rel-11				
CA_11A-28A	Rel-14				
CA_12A-25A	Rel-12				
CA_12A-30A	Rel-12				
CA_12A-66A	Rel-14				
CA_12A-66A-66A	Rel-14				
CA_13A-66A-66A	Rel-14				
CA_14A-30A	Rel-15				

CA_14A-66A	Rel-15				
CA_14A-66A-66A	Rel-15				
CA_18A-28A	Rel-12				
CA_19A-21A	Rel-12				
CA_19A-42A	Rel-12				
CA_19A-42C	Rel-12				
CA_20A-28A	Rel-14				
CA_20A-32A	Rel-12				
CA_20A-40A	Rel-13				
CA_20A-42A-42A	Rel-13				
CA_20A-67A	Rel-12				
CA_21A-42C	Rel-13				
CA_23A-29A	Rel-12				
CA_26A-41A	Rel-12				
CA_26A-41C	Rel-12				
CA_28A-41A	Rel-13				
CA_28A-41C	Rel-13				
CA_28A-42A	Rel-13				
CA_28A-42C	Rel-13				
CA_29A-30A	Rel-12				
CA_29A-66A	Rel-14				
CA_29A-66A-66A	Rel-14				
CA_29A-66C	Rel-14				
CA_29A-70A	Rel-14			70	
CA_29A-70C	Rel-15			70	
CA_30A-66A	Rel-14				
CA_30A-66A-66A	Rel-14				
CA_39A-41A	Rel-12				
CA_39A-41C	Rel-12				
CA_41A-42A	Rel-12				
CA_41A-42C	Rel-13				
CA_41C-42A	Rel-13				
CA_41A-46A	Rel-13				
CA_42A-46A	Rel-13				
CA_46A-46A-66A	Rel-14				
CA_46A-66A	Rel-14				
CA_46A-66A-66A	Rel-14				
CA_46A-66C	Rel-14				
CA_46A-70A	Rel-14				
CA_46C-66A	Rel-14				
CA_66A-66A-70A	Rel-15				
CA_66A-66A-70C	Rel-15				
CA_66A-66A-71A	Rel-15				
CA_66A-70A	Rel-15				
CA_66A-70C	Rel-15				
CA_66A-71A	Rel-15				
CA_66C-70A	Rel-15				
CA_66C-70C	Rel-15				
CA_66C-71A	Rel-15				
CA_70A-71A	Rel-15				
CA_70C-71A	Rel-15				

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: The UL CA capabilities as per Table A.4.3.3.3-2 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.1-2. 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: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-2.

Note 4: Reference to all items is 36.101, 5.6A and 36.331, 6.3.6.

Note 5: 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)

E-UTRA CA configuration / Item (Note 1)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2)	Supported UL Bands (Note 5)	Supported Bandwidth Combination Set(s) (Note 3)
CA_1A-3A-5A	Rel-12				
CA_1A-3A-7A	Rel-13				
CA_1A-3A-8A	Rel-12				
CA_1A-3A-19A	Rel-12				
CA_1A-3A-11A	Rel-14				
CA_1A-3A-20A	Rel-12				
CA_1A-3A-26A	Rel-12				
CA_1A-3A-28A	Rel-13				
CA_1A-3A-40A	Rel-13				
CA_1A-3A-41A	Rel-14				
CA_1A-3A-42A	Rel-13				
CA_1A-3C-8A	Rel-14				
CA_1A-5A-7A	Rel-12				
CA_1A-7A-8A	Rel-13				
CA_1A-7A-20A	Rel-12				
CA_1A-8A-11A	Rel-13				
CA_1A-8A-28A	Rel-14			1, 8	
CA_1A-8A-40A	Rel-13				
CA_1A-11A-18A	Rel-13				
CA_1A-11A-28A	Rel-14				
CA_1A-18A-28A	Rel-12				
CA_1A-19A-21A	Rel-12				
CA_1A-19A-28A	Rel-13				
CA_1A-19A-42A	Rel-13				
CA_1A-21A-42A	Rel-13				
CA_1A-41A-42A	Rel-14			1, 42	
CA_1A-41C-42A	Rel-14			1, 42	
CA_1A-41A-42C	Rel-14			1, 42	
CA_1A-41C-42C	Rel-14			1, 42	
CA_2A-2A-4A-5A	Rel-13				
CA_2A-2A-4A-71A	Rel-15				
CA_2A-2A-5A-12A	Rel-13				
CA_2A-2A-5A-30A	Rel-14				
CA_2A-2A-12A-30A	Rel-14				
CA_2A-2A-66A-71A	Rel-15				
CA_2A-4A-5A	Rel-12				
CA_2A-4A-7A	Rel-13				
CA_2A-4A-12A	Rel-12				
CA_2A-4A-13A	Rel-12				
CA_2A-4A-29A	Rel-12				
CA_2A-4A-71A	Rel-15				
CA_2A-5A-12A	Rel-12				
CA_2A-5A-12B	Rel-13				
CA_2A-5A-13A	Rel-12				
CA_2A-5A-30A	Rel-12				
CA_2A-5A-66A	Rel-14				
CA_2A-5B-30A	Rel-14				
CA_2A-5B-66A	Rel-14				
CA_2A-5B-66A-66A	Rel-15				
CA_2A-7A-12A	Rel-13				
CA_2A-12A-30A	Rel-12				
CA_2A-12A-66A	Rel-14				
CA_2A-12A-66A-66A	Rel-14				
CA_2A-13A-66A	Rel-14				
CA_2A-14A-30A	Rel-15				
CA_2A-14A-66A	Rel-15				
CA_2A-29A-30A	Rel-12				
CA_2A-30A-66A	Rel-14				
CA_2A-66A-71A	Rel-15				
CA_2A-66A-66A-71A	Rel-15				
CA_2C-12A-30A	Rel-13				

CA_2C-29A-30A	Rel-13				
CA_3A-7A-8A	Rel-13				
CA_3A-7A-20A	Rel-12				
CA_3A-7A-28A	Rel-13				
CA_3A-8A-11A	Rel-14				
CA_3A-8A-28A	Rel-14			3, 8	
CA_3A-8A-40A	Rel-13				
CA_3A-11A-28A	Rel-14				
CA_3A-19A-42A	Rel-13				
CA_3A-20A-32A	Rel-14				
CA_3A-28A-41A	Rel-14				
CA_3A-41A-42A	Rel-13				
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_5A-30A-66A	Rel-14				
CA_5B-30A-66A	Rel-14				
CA_5B-30A-66A-66A	Rel-15				
CA_7A-8A-20A	Rel-12				
CA_8A-11A-28A	Rel-14			8, 11	
CA_12A-30A-66A	Rel-14				
CA_14A-30A-66A	Rel-15				
CA_14A-30A-66A-66A	Rel-15				
CA_19A-21A-42A	Rel-13				
CA_29A-46A-66A	Rel-14			66	
CA_29A-66A-66A-70A	Rel-15			66, 70	
CA_29A-66A-66A-70C	Rel-15			66, 70	
CA_29A-66A-70A	Rel-15			66, 70	
CA_29A-66A-70C	Rel-15			66, 70	
CA_29A-66C-70A	Rel-15			66, 70	
CA_29A-66C-70C	Rel-15			66, 70	
CA_66A-66A-70A-71A	Rel-15				
CA_66A-66A-70C-71A	Rel-15				
CA_66A-70A-71A	Rel-15				
CA_66A-70C-71A	Rel-15				
CA_66C-70A-71A	Rel-15				
CA_66C-70C-71A	Rel-15				

Note 1: Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-2a, e.g. 'CA_1A-3A-19A' indicates CA operation on E-UTRA bands 1, 3 and 19, each with CA Bandwidth class A.

Note 2: The UL CA capabilities as per Table A.4.3.3.3-2 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.1-2a. The UE shall also indicate in which bands is UL supported. For this release of specification valid choices are 'N', 'XA-YA' etc, where X,Y,Z are the bands. For example, for UL support in B1+B3, and B3+B19, for CA_1A-3A-19A, UE shall indicate '1A-3A','3A-19A',

Note 3: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-2a.

Note 4: Reference to all items is 36.101, 5.6A and 36.331, 6.3.6.

Note 5: List all the CA Combination bands where UL is supported.

Table A.4.3.3.3-5: Supported CA configurations for Inter-band CA (four bands)

E-UTRA CA configuration / Item (Note 1)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2)	Supported UL Bands (Note 5)	Supported Bandwidth Combination Set(s) (Note 3)
CA_1A-3A-7A-8A	Rel-13				
CA_1A-3A-7A-20A	Rel-14				
CA_1A-3A-7A-32A	Rel-15				
CA_1A-3A-8A-40A	Rel-13				
CA_2A-4A-5A-12A	Rel-13				
CA_2A-4A-5A-29A	Rel-13				
CA_2A-4A-12A-30A	Rel-13				
CA_2A-4A-29A-30A	Rel-13				
CA_2A-5A-30A-66A	Rel-14				
CA_2A-5B-30A-66A	Rel-14				
CA_2A-12A-30A-66A	Rel-14				
CA_2A-14A-30A-66A	Rel-15				
CA_3A-7A-20A-32A	Rel-14				

Note 1: Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-2b, e.g. 'CA_1A-3A-5A-7A' indicates CA operation on E-UTRA bands 1, 3, 5 and 7, each with CA Bandwidth class A.
Note 2: The UL CA capabilities as per Table A.4.3.3.3-2 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.1-2b. The UE shall also indicate in which bands is UL supported. For this release of specification valid choices are 'N', 'XA-YA' etc, where X,Y are the bands. For example, for UL support in B1+B3, and B3+B5, for CA_1A-3A-5A-7A, UE shall indicate '1A-3A','3A-15A', For no UL CA 'N'.
Note 3: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-2b.
Note 4: Reference to all items is 36.101, 5.6A and 36.331, 6.3.6.
Note 5: List all the CA Combination bands where UL is supported.

A.4.3.4 ProSe Physical Layer Implementation Capabilities

Editor's Note: At the moment the table below only indicates what needs to be specified and provides core spec references. How these exactly should be specified is FFS.

Table A.4.3.4-1: ProSe Physical Layer Implementation Capabilities

Item	FDD (DS) RF Baseline Implementation Capabilities	Ref.	Release	Supported	Comments
1	The bands on which the UE supports sidelink communication	36.306, 4.3.21.1	Rel-12		commSupportedBands-r12
2	For a particular band combination, the bands on which the UE supports simultaneous reception of EUTRA and sidelink communication	36.306, 4.3.5.12	Rel-12		commSupportedBandsPerBC-r12
3	The bands on which the UE supports sidelink discovery	36.306, 4.3.21.3	Rel-12		discSupportedBands-r12
4	The number of processes supported by the UE for reception of sidelink discovery	36.306, 4.3.21.7	Rel-12		discSupportedProc-r12

A.4.4 Additional information

Table A.4.4-1: Additional information

Item	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_list	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_UTRA_to_eFDD	
9	Support of EMM information message	24.301, 5.4.5.3	Rel-8	pc_EMM_Information	
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_FullNameNetwork	
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_ShortNameNetwork	
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	
15	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_UniversalAndLocalTimeZone	
16	Void				
17	Void				
18	Support of ESM UE requested bearer resource allocation procedure	24.301, 6.5.3	Rel-8	pc_ESM_MO_Bearer_Allocation	
19	Support of ESM UE requested bearer resource modification procedure	24.301, 6.5.4	Rel-8	pc_ESM_MO_Bearer_Modification	
20	Support of ETWS message	23.401, 5.12.2	Rel-8	pc_ETWS_message	
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_UTRAN_meas	
22	Support for being configured to request the IPv6 address of the Home Agent during Attach procedure	24.303	Rel-8	pc_RequestIPv6HAAddress_DuringAttach	
23	Support for being configured to request the IPv4 address of the Home Agent during Attach procedure	24.303	Rel-8	pc_RequestIPv4HAAddress_DuringAttach	
24	Void				
25	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	

Item	Additional information	Ref.	Release	Mnemonic	Comments
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_CompressedModeRequired	
29	Support of GERAN to E-UTRAN PS Handover	24.008, 10.5.5.12a	Rel-8	pc_GERAN_2_E_UTRAN_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 *RRCConnectionRelease* upon redirection	36.306	Rel-9	pc_eRedirectionUTRA	
32	Support for SRVCC from E-UTRAN to GERAN/UTRAN	24.301, 8.2.4	Rel-8	pc_SRVCC_GERAN_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 emergency call using the CS domain in GERAN after ATTACH REJECT to emergency bearer service	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	
38	Support for EDTM	44.060 8.9.1.2	Rel-8	pc_EDTM	
39	Supports CCN towards E-UTRAN, E-UTRAN Neighbour Cell measurement reporting and Network controlled cell reselection to E-UTRAN	24.008, 10.5.5.12a	Rel-8	pc_GERAN_2_E_UTRAN_measreporting_CCN	
40	Support for ROHC profile0x0001	36.306, 4.3.1.1	Rel-8	pc_ROHC_profile0x0001	'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_profile0x0002	'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_profile0x0003	
43	Support for ROHC profile0x0004	36.306, 4.3.1.1	Rel-8	pc_ROHC_profile0x0004	
44	Support for ROHC profile0x0006	36.306, 4.3.1.1	Rel-8	pc_ROHC_profile0x0006	
45	Support for ROHC profile0x0101	36.306, 4.3.1.1	Rel-8	pc_ROHC_profile0x0101	
46	Support for ROHC profile0x0102	36.306, 4.3.1.1	Rel-8	pc_ROHC_profile0x0102	
47	Support for ROHC profile0x0103	36.306, 4.3.1.1	Rel-8	pc_ROHC_profile0x0103	
48	Support for ROHC profile0x0104	36.306, 4.3.1.1	Rel-8	pc_ROHC_profile0x0104	

Item	Additional information	Ref.	Release	Mnemonic	Comments
49	Support of manual CSG selection	36.331, Annex B2	Rel-8	pc_Manual_CSG_ Selection	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	Support of inter-RAT PS handover to E-UTRA (TDD) from UTRA	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				
61	Void				
62	Support of logged measurements in RRC_IDLE	36.306, 4.3.13.1	Rel-10	pc_LoggedMeasur ementsIdle	
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	

Item	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_UpperLayer	
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_Connectivity	
69	Support user initiated PLMN reselection in automatic mode	23.122	Rel-8	pc_UserInitiatedPLMN_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_Notification	
72	Support of sending concatenated multiple Short Message over SGs	23.272, 8.2.3a	Rel-9	pc_SMS_SGs_Multi_MO	
73	Support TAU in connected mode	23.221, 7.2a	Rel-8	pc_TAU_connected_in_IMS	Applicable when configured to pc_voice_PS_1_CS_2 and pc_Attach
74	Support TAU in idle mode	23.221, 7.2a	Rel-8	pc_TAU_idle_in_IMS	
75	Support of Intra Frequency Proximity Indication	36.306, clause 4.3.10.1	Rel-9	pc_IntraFreq_ProximityIndication	
76	Support of Inter Frequency Proximity Indication	36.306, clause 4.3.10.2	Rel-9	pc_InterFreq_ProximityIndication	
77	Support of UTRAN Proximity Indication	36.306, clause 4.3.10.3	Rel-9	pc_UTRAN_ProximityIndication	
78	Support of Access Technology Indication in available PLMNs list	23.122, clause 4.4.3.1.2	Rel-8	pc_Available_PLMNs_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_CellReselection_between_E_UTRAN_and_GERAN	
80	Support of AttachWithIMSI	24.368, 5.4	Rel-10	pc_eAttachWithIMSI	
81	Support of T3412 extended value IE	24.301, 8.2.1.12, 8.2.26.15	Rel-10	pc_T3412Extended	
82	Void				
83	Void				
84	Support of MinimumPeriodicSearchTimer	23.122, 4.4.3.3	Rel-10	pc_eMinimumPeriodicSearchTimer	
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	Void				
91	Support of Extended Access Barring Override	24.368, 5.10, 31.102, 4.2.94	Rel-11	pc_EAB_override	
92	Void				
93	Upon reception of 'Daylight saving time' information the UE stores/updates the daylight saving time	24.301, 8.2.13	Rel-8	pc_DaylightSavingTime	
94	Support of Radio Link Failure Report for inter-RAT MRO	36.306, clause 6.10.1	Rel-11	pc_RLF_ReportForInterRAT_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 EF_LRPLMSI PLMN Selection exception	23.122, 4.4.3.1	Rel-8	pc_PLMN_EF_LRPLMNSI_Automatic_Mode_Exception	

Item	Additional information	Ref.	Release	Mnemonic	Comments
98	Support of Manual Mode PLMN Selection exception	23.122, 4.4.3.1	Rel-8	pc_PLMN_Manual_Mode_Exception	
99	Support of ZUC algorithm	33.401,5.1.3.2	Rel-11	pc_ZUC	
100	Supports, upon configuration of *si-RequestForHO* by the network, acquisition of relevant information from a neighbouring UMTS cell by reading the SI of the neighbouring cell using autonomous gaps and reporting	36.306, 4.3.11.3	Rel-9	pc_SI_Neighbour_UMTS_Autonomous_Gaps	
101	Support of reception of requestedFrequencyBands	36.306, 4.3.5.6	Rel-11	pc_reqFreqBands	
102	Support of more than 128 CA Band Combinations	36.331, 5.6.3.3, 6.4	Rel-11	pc_More_Than_128_CAbandComb	
103	Supports, upon configuration of *si-RequestForHO* by the network, acquisition of relevant information from a neighbouring intra-frequency cell by reading the SI of the neighbouring cell using autonomous gaps and reporting	36.306, 4.3.11.1	Rel-9	pc_SI_Neighbour_intraFreq_Autonomous_Gaps	
104	Supports, upon configuration of *si-RequestForHO* by the network, acquisition of relevant information from a neighbouring inter-frequency cell by reading the SI of the neighbouring cell using autonomous gaps and reporting	36.306, 4.3.11.2	Rel-9	pc_SI_Neighbour_interFreq_Autonomous_Gaps	
105	Support of Type B Half-duplex FDD operation	36.211, 6.2.5 36.306, 4.2.6	Rel-12	pc_FDD_TypeB_HalfDuplex	Only applicable for UE supporting Category 0 and Category M1. When set transmission scheduling is performed in accordance to Half-Duplex operation Type B else in accordance to Full-Duplex operation.
106	Void				
107	Support of enhanced HARQ pattern for TTI bundling operation for FDD	36.306 4.3.4.27	Rel-12	pc_eHARQ_Pattern_for_TTI_bundling	
108	Support of tdd-FDD-CA-PCellDuplex-r12 with the first bit setting to "1"	36.306, 4.3.4.28	Rel-12	pc_tdd_FDD_CA_TDD_PCell	
109	Support of tdd-FDD-CA-PCellDuplex-r12 with the second bit setting to "1"	36.306, 4.3.4.28	Rel-12	pc_tdd_FDD_CA_FDD_PCell	
110	Support of ProSe direct communication	36.306, 4.3.21.1	Rel-12	pc_commSupportedBands	36.306, 4.3.21.1: If a UE 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 allocation.
111	Support of ProSe direct discovery	36.306, 4.3.21.3	Rel-12	pc_discSupportedBands	
112	Support of ProSe EPC level discovery	24.334, 7.2	Rel-12	pc_Prose_EPC_Discovery	
113	Support of ProSe discovery SLSS transmission and reception	36.306, 4.3.21.6	Rel-12	pc_discSLSS	
114	Support of uplink 64QAM	36.306, 4.3.4.39	Rel-12	pc_UL_64QAM	
115	Support of Power Saving Mode	24.301, 5.3.11	Rel-12	pc_ePSM	

Item	Additional information	Ref.	Release	Mnemonic	Comments
116	Support of downlink 256QAM	36.306, 4.1, 4.1A	Rel-12	pc_DL_256QAM	Applicable for UEs of category 11-12 and UEs of DL category 11 and onwards. It is mandatory for UEs of DL category 13-14.
117	Support for GSMA PRD IR.51: "IMS Profile for Voice, Video and SMS over Wi-Fi"	IEEE Std 802.11 GSMA PRD IR.51	Rel-11	pc_WLAN_voice	The IR.51 is based on 3GPP Rel-11.
118	Support of CSI-RS based discovery signals measurement	36.306 4.3.6.10	Rel-12	pc_CSI_RS_DS_Meas	
119	Support of simultaneous transmission of EUTRA and sidelink communication (on different carriers) in all bands for which the UE indicated simultaneous sidelink and EUTRA support in a band combination (using commSupportedBandsPerBC)	36.306, 4.3.21.2	Rel-12	pc_commSimultaneousTx	
120	ProSe Discovery for Public Safety supported	24.334, 4.1	Rel-12	pc_disc_public_safety	If Support of ProSe direct discovery (entry 111) is indicated then if the present entry is set to FALSE this shall be understood as ProSe Discovery for non-Public Safety supported
121	Support of extended DRX	24.301, 5.3.12	Rel-13	pc_edrx	
122	Support of CE mode A	36.306, 4.3.29.1	Rel-13	pc_CEmodeA	Mandatory for CAT M1 UE
123	Support of CE mode B	36.306, 4.3.29.2	Rel-13	pc_CEmodeB	
124	Support of TDD UL/DL reconfiguration for TDD serving cell(s) via monitoring PDCCH with eIMTA-RNTI on a TDD PCell, and HARQ feedback according to UL and DL HARQ reference configurations	36.306, 4.3.4.31	Rel-12	pc_eIMTA_TDD	
125	Support of prioritization of the frequency bands in multiBandInfoList over the band in freqBandIndicator as defined by freqBandIndicatorPriority-r12	36.306, 4.3.5.11	Rel-12	pc_freqBandPriorityAdjustment	
126	Support of MBMS reception via SC-PTM on configured SCell	36.306, 4.3.5.2	Rel-13	pc_scptm_SCell	
127	Support of MBMS reception via SC-PTM on a cell that may be additionally configured as an SCell	36.306, 4.3.5.2	Rel-13	pc_scptm_NonServingCell	
128	Support of extended Long DRX cycle	36.306, 4.3.19.4	Rel-13	pc_extendedLongDRX	
129	Supports downlink LAA operation	36.306, 4.3.23.1	Rel-13	pc_downlink_LAA	
130	Supports measurement and reporting for RSSI and channel occupancy	36.306, 4.3.6.19	Rel-13	pc_rssiAndChannelOccupancyReporting	
131	Support of QCI1 indication in Radio Link Failure Report	36.306, 6.8.2	Rel-13	pc_qci1Indication_inRLF	
132	Support of user plane CIoT optimisation	24.301, 5.3.15	Rel-13	pc_User_Plane_CIoT_Optimisation	
133	Support of EMM-REGISTERED without PDN	24.301, 5.3.15	Rel-13	pc_AttachWithoutPDN	
134	Support of EMM-REGISTERED with PDN	24.301, 5.3.15	Rel-13	pc_AttachWithPDN	
135	Void				
136	Void				
137	Support of multiple DRBs in NB-IoT	36.306, 4.3.8.5	Rel-13	pc_NB_MultiDRB	

Item	Additional information	Ref.	Release	Mnemonic	Comments
138	Support of Fast First Higher Priority PLMN search	23.122, 4.4.3.3.1	Rel-12	pc_Fast_First_HPPLMN_Search	
139	Support of TDD Band 41 Power class 2 operation	36.101, 6.2.2	Rel-14	pc_B41_UE_PC2	
140	Support for PDCP Packet Delay per QCI	TS 36.331 5.5.2	Rel-13	pc_PDCP_PktDelay	
141	Support of eventA3 for intra-frequency neighbouring cells in normal coverage and CE Mode A	36.306, 4.3.29.3	Rel-13	pc_IntraFreqA3_CE_ModeA	
142	Support of intra-frequency handover to target cell in normal coverage and CE Mode A	36.306, 4.3.29.5	Rel-13	pc_IntraFreqHO_CE_ModeA	
143	Support of Control plane CIoT	24.301, 5.3.15	Rel-13	pc_Control_Plane_CIoT_Optimisation	
144	Support of S1-U data transfer	24.301, 5.3.15	Rel-13	pc_S1_U_DataTransfer	An UE supporting user plane CIoT optimization shall set this PICS to true.
145	Support for GSMA PRD NG.108: "IMS Profile for Voice and SMS for UE category M1"	GSMA PRD NG.108	Rel-13	pc_Category_M1_voice	
146	Support of automatic PDN connection trigger on HRPD cell reselection	X.s0057, 6.4.1	Rel-8	pc_AutomaticHRPD_PDN_Connection	
147	Support for Dual RM Coding	36.331, 6.3.6	Rel-10	pc_DualRM_Coding	
148	Support of V2X sidelink communication	36.300, 23.14.1.1	Rel-14	pc_v2xCommSidelink	
149	Support of V2X communication Via Uu	36.300, 23.14.1.1	Rel-14	pc_v2xCommUu	
150	Support of simultaneous transmission of EUTRA and V2X sidelink communication	36.306, 4.3.5.27	Rel-14	pc_v2xSimultaneousTx	
151	Support of simultaneous reception of EUTRA and V2X sidelink communication	36.306, 4.3.5.27	Rel-14	pc_v2xSimultaneousRx	
152	Support of transmitting PSCCH/PSSCH using dynamic scheduling	36.306, 4.3.21.14	Rel-14	pc_v2xScheduling	
153	Support of transmitting PSCCH/PSSCH using UE autonomous resource selection mode with full sensing	36.306, 4.3.21.15	Rel-14	pc_v2xFullSensing	
154	Support of transmitting PSCCH/PSSCH using UE autonomous resource selection mode with partial sensing	36.306, 4.3.21.16	Rel-14	pc_v2xPartialSensing	
155	Support of SLSS transmission and reception for V2X sidelink communication	36.306, 4.3.21.17	Rel-14	pc_v2xSLSS	
156	Support of CBR measurement and reporting	36.306, 4.3.21.18	Rel-14	pc_v2xCBRMeas	
157	Support of zone based transmission resource pool selection for V2X sidelink communication	36.306, 4.3.21.12	Rel-14	pc_v2xZoneBasedPoolSelection	
158	Require intra-frequency measurement gaps for operating in CE Mode A or CE Mode B	36.306, 4.3.5.1.2	Rel-13	pc intraFreq-CE-NeedForGaps	
159	Support of 4 layer spatial multiplexing with transmission mode 3 and transmission mode 4	36.306, 4.3.4.7	Rel-10	pc_4Layer_spatial_mux_tm3_tm4	
160	Support of delay budget reporting for MMTEL voice and video enhancements	36.306, 4.3.32.1	Rel-14	pc_delayBudgetReporting	
161	Support of PUSCH enhancement for MMTEL voice and video enhancements mode	36.306, 4.3.32.2	Rel-14	pc_PUSCH_Ehn_MMTEL	

Item	Additional information	Ref.	Release	Mnemonic	Comments
162	Support of bit rate recommendation query for MMTEL voice and video enhancements	36.306, 4.3.32.4	Rel-14	pc_recommendedBitRateQuery	Support of bit rate recommendation message and bit rate recommendation query message
163	Support of PUCCH transmission on SCell in CA	36.306, 4.3.4.47	Rel-13	pc_PUCCH_SCell	
164	Support high speed enhancement for random access preambles generated from restricted set type B in high speed scenoario as specified in TS 36.211	36.306	Rel-14	pc_Highspeed_Enh_Prach	
165	Support of RRC connection re-establishment	36.306, 6.7.5	Rel-14	pc_RRC_re-establishment_CP_CIoT	An UE supporting S1-U data transfer shall set this PICS to true.
166	Support of SRS switching between a band pair	36.306, 4.3.5.24, 4.3.5.25	Rel-14	pc_SRS_switching	Support of SRS switching between a band pair
167	Support of 2 HARQ processes in DL and UL in NB-IoT	36.306, 4.3.4.62	Rel-14	pc_NB_TwoHARQ_Processes	
168	Support of Release Assistance Indication (RAI) in NB-IoT	36.306, 4.3.19.10	Rel-14	pc_NB_Rai_Support	
169	Support of Announcing for ProSe Group Member Discovery	24.334, 10A.2.6	Rel-13	pc_ProSeAnnForGroupMemberDiscovery	
170	Support of SPS interval shorter than 10 subframes in FDD mode	36.306, 4.3.19.5	Rel-14	pc_shortSPS_intervalFDD	
171	Support of SPS interval shorter than 10 subframes in TDD mode	36.306, 4.3.19.6	Rel-14	pc_shortSPS_intervalTDD	
172	Support of skipping SPS UL transmissions if no data is available	36.306, 4.3.19.8	Rel-14	pc_skipUplinkSPS	An UE supporting SPS interval shorter than 10 (pc_shortSPS_intervalFDD or pc_shortSPS_intervalTDD) shall set this PICS to true.
173	Support of skipping UL transmissions if no data is available	36.306, 4.3.19.7	Rel-14	pc_skipUplinkDynamic	
174	Supports uplink LAA operation	36.306, 4.3.23.8	Rel-14	pc_uplink_LAA	Support of Enhanced LAA operations
175	Void				
176	Supports two step uplink scheduling using PUSCH trigger A and PUSCH trigger B	36.306, 4.3.23.10	Rel-14	pc_twoStepScheduling_uplink_LAA	UE supports two step uplink scheduling using PUSCH trigger A and PUSCH trigger B, applying to the UE supports uplink LAA operation
177	Supports multiple uplink SPS and reporting SPS assistance information	36.306, 4.3.19.11	Rel-14	pc_multipleUplinkSPS	Support of multiple uplink SPS and reporting SPS assistance information
178	Support of V2X communication as Pedestrian UE	36.300, 23.14.1.1	Rel-14	pc_P2X_UE	

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

Item	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_SpecialSubframe	This is a Rel-11 Mandatory feature
			Rel-9, Rel-10	O			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_multipleTimingAdvance	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)
5	Support of transmission of discovery announcements based on network scheduled resource allocation.	36.306, 4.3.21.4	Rel-12	O.01		pc_discScheduledResourceAlloc	This is a Rel-12 Mandatory feature (Note 5)
6	Support of transmission of discovery announcements based on UE autonomous resource selection.	36.306, 4.3.21.5	Rel-12	O.01		pc_discUESelectedResourceAlloc	This is a Rel-12 Mandatory feature (Note 5)
7	Support of CRS interference handling	36.306, 4.3.4.15	Rel-11	O.01		pc_CRS_Interference_Handling	This is a Rel-11 Mandatory feature except UE Category 0 and Category M1
8	Support of Synchronisation signal and common channel interference handling	36.306, 4.3.4.20	Rel-11	O.01		pc_ss_CCH_Interference_Handling	This is a Rel-11 Mandatory feature for TDD bands except UE Category 0 and Category M1
9	Support of UL multi-tone transmissions on NPUSCH in NB-IoT	36.306, 4.3.4.55	Rel-13	O.01		pc_NB_MultiTone	This is a Rel-13 Mandatory feature for UEs of any *ue-Category-NB*
10	Support of multi-carrier operation in NB-IoT	36.306, 4.3.4.56	Rel-13	O.01		pc_NB_MultiCarrier	This is a Rel-13 Mandatory feature for UEs of any *ue-Category-NB*

11	Support of PRACH on non-anchor carrier in NB-IoT	36.306, 4.3.4.75	Rel-14	O.01		pc_NB_MultiCarrier_NPRACH	This is a Rel-14 Mandatory feature for UEs of any *ue-Category-NB*
12	Support of paging on non-anchor carriers in NB-IoT	36.306, 4.3.4.76	Rel-14	O.01		pc_NB_MultiCarrier_Paging	This is a Rel-14 Mandatory feature for UEs of any *ue-Category-NB*
13	Support of interference randomisation in connected mode in NB-IoT	36.306, 4.3.4.80	Rel-14	O.01		pc_NB_InterferenceRandomisation	This is a Rel-14 Mandatory feature for UEs of any *ue-Category-NB*

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.
Note 3: 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 capability this would depend on the indication for UL support provided in Table A.4.3.3.3-3 i.e. if for at least one CA configurations for Inter-band CA the UE indicates A-A then the Support of multiple timing advances for this CA configuration is Mandatory.
Note 4: It is mandatory for UEs which are supporting an access subject to Extended Access Barring (see 36.306, 7.1.3).
Note 5: It is mandatory for UEs which are supporting ProSe direct discovery.

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

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

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_centric OR pc_PS_data_centric) shall set this PICS to true.

Item	Definition of UE implementation capabilities	Ref.	Release	Mnemonic	Comments
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_SMS_SGs OR pc_IMSI_detach OR pc_CS_Em_Call_in_UTRA OR pc_CS_Em_Call_in_GERAN OR pc_CS_PS_voice_centric OR pc_CS_PS_data_centric shall set this PICS to true.
3	Void				
4	Support of CS/PS mode 1	24.301	Rel-8	pc_CS_PS_voice_centric	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_centric	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.
10	Keeps EPS Bearer Context parameters after completion of the normal DETACH procedure	24.301 cl. 5.5.2.2.2	Rel-8	pc_KeepEpsBearerParametersAfterNormalDetach	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,"IP" 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.

Item	Definition of UE implementation capabilities	Ref.	Release	Mnemonic	Comments
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_second_APN	Configured to provide IMS APN as the second PDN connection.
15	Provide Internet as second APN	23.401	Rel-8	pc_Provide_Internet_as_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_disconnect	UE supports user initiated PDN disconnect.
17	XCAP over Internet PDN	23.401	Rel-8	pc_XCAP_over_Internet_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_APN	Configured to provide ProSe APN and a PDN connection request. An UE supporting D2D ProSe shall set this PICS to true.
20	Provisioned FQDN ePDG	24.302	Rel-13	pc_ePDG_FQDN_Provisioned	Configured with an ePDG FQDN provisioned by the home operator.
21	Operator Identifier FQDN format used for ePDG	24.302	Rel-13	pc_ePDG_FQDN_constructed	Configured to construct the ePDG FQDN in the Operator Identifier FQDN format.
22	UE supports only NB-S1 mode (i.e. NB-IoT)	24.301	Rel-13	pc_NB_S1_only	
23	UE capable of requesting PDN of type "Non-IP"	24.301	Rel-13	pc_NonIP_PDN	
24	UE capable of requesting PDN of type "IP"	24.301	Rel-13	pc_IP_PDN	
25	The UE supports Non-IP Link MTU parameter	24.301	Rel-13	pc_NonIP_Link_MTU_Parameter	
26	The UE supports IPv4 Link MTU parameter	24.301	Rel-13	pc_IPv4_Link_MTU_Parameter	
27	The UE supports APN rate control	24.301	Rel-13	pc_APN_RateControl	
28	The UE supports Header compression for control plane CIoT EPS optimization	24.301	Rel-13	pc_HCCPCIoT	
29	The UE supports a mechanism to provide Daylight Saving Time	24.301	Rel-8	pc_ProvideDST_inUse	Note 3

Item	Definition of UE implementation capabilities	Ref.	Release	Mnemonic	Comments
30	The UE does not request IMS PDN connection when IMS VoPS set to '0'	24.301	Rel-8	pc_UE_NoReqIMS_IMSVoPS_0	Configured not to request IMS PDN connection when IMS VoPS set to '0'
31	The UE supports additional APN rate control for exception data reporting	24.301	Rel-14	pc_Additional_APN_RateControl	
32	The UE is configured to use SMS over IP	24.167	Rel-8	pc_Use_SMS_over_IP	Configured to use SMS over IP
Note 1: A UE supporting UTRAN and/or GERAN which is configured to initiate EPS attach considers UTRAN and GERAN cell as candidates for cell selection and cell reselection according to TS 36.304. A UE configured to initiate EPS attach which has selected a UTRAN or GERAN cell may perform registration procedures to the PS and CS domains, or to the PS domain only or to the CS domain only. Note 2: pc_XCAP_only_APN and pc_XCAP_over_Internet_APN are mutual exclusive i.e. shall not be set to true at the same time. Note 3: Shall be set to false when pc_DaylightSavingTime is false.					

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	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	- set to 1 by category M1 UE that has implemented and successfully tested "ZAperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 - UE selected subband CQI without PM"		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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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 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.
	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			
			Yes, if UE supports VoLTE. Yes, if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			
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.
5				Rel-8		pc_FeatrGrp_5_F	

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	Support of - Long DRX cycle - DRX command MAC control element		Yes	Rel-9	36.331, Annex B.1		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			Rel-8	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.
			Yes	Rel-9			
7	Support of - RLC UM	- can only be set to 0 if the UE does not support voice		Rel-8	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.
			Yes, if UE supports VoLTE	Rel-9, Rel-10			
			Yes, if UE supports VoLTE. Yes, if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			
8	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH PS handover	- 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_F	Corresponding to the Index of Indicator, the leftmost binary bit 8. Set to true if supporting all functionalities in the feature group.
	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		Yes (except for category M1 UE), if UE supports UTRA FDD	Rel-9			
9				Rel-8 to Rel-10		pc_FeatrGrp_9_F	

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	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 (except for category M1 UE), if UE supports SRVCC to EUTRAN from GERAN.	Rel-11	36.331, Annex B.1		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)			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 (except for category M1 UE), 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.
14	Support of - Measurement reporting event: Event A4 - Neighbour > threshold - Measurement reporting event: Event A5 - Serving < threshold1 & Neighbour > threshold2		 Yes (except for category M1 UE)	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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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 - If a category M1 UE does not support this feature group, this bit shall be set to 0.	 Yes for FDD, if UE supports only UTRAN FDD and does not support UTRAN TDD or GERAN or 1xRTT or HRPD	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				Rel-8		pc_FeatrGrp_16_F	

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	Support of - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells*; - 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; and - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* 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 *triggerType* set to *event* and with *reportAmount* > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit. Support of - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - 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 *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* 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 *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* 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 *triggerType* set to *event* and with *reportAmount* > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit.	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes	Rel-9	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.4.5-1b for TDD.
17				Rel-8		pc_FeatrGrp_17_F	

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	Support of Intra-frequency ANR features including: - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 to 1. - If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes	Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 17. 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.4.5-1b for TDD.
18	Support of Inter-frequency ANR features including: - Inter-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Inter-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 to 1. - If a category M1 UE does not support this feature group, this bit shall be set to 0.	 Yes, unless UE only supports band 13	Rel-8 Rel-9	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. 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 *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* 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 *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively			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
	Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* 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 *reportStrongestCellsForSON* 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 *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* for 1xRTT or HRPD, if the UE has set bit number 24 or 26 to 1, respectively - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRANTDD and has set bit number 22 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* 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 *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* 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 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 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-9			
20				Rel-8		pc_FeatrGrp_20_F	

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	If bit number 7 is set to '0': - SRB1 and SRB2 for DCCH + 8x AM DRB If bit number 7 is set to '1': - SRB1 and SRB2 for DCCH + 8x AM DRB - SRB1 and SRB2 for DCCH + 5x AM DRB + 3x UM DRB NOTE: UE which indicate support for a DRB combination also support all subsets of the DRB combination. Therefore, release of DRB(s) never results in an unsupported DRB combination.	- Regardless of what bit number 7 and bit number 20 is set to, UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB - Regardless of what bit number 20 is set to, if bit number 7 is set to '1', UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB + 1x UM DRB	Yes	Rel-9	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.
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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	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.
	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-9			
23	Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
24	Support of - 1xRTT measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	 Yes, if UE supports enhanced 1xRTT CSFB	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_24_F	Corresponding to the Index of Indicator, the leftmost binary bit 24. Set to true if supporting all functionalities in the feature group.
25	Support of - Inter-frequency measurements and reporting in E-UTRA connected mode 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 in FDD.	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	 Yes, unless UE only supports band 13	Rel-8 Rel-9	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. 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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	 Yes, if UE supports HRPD	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 group.
27	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH CS handover 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	- related to SR-VCC - can only be set to 1 if the UE has set bit number 8 to 1 and supports SR-VCC from EUTRA defined in TS 24.008. - If a category M1 UE does not support this feature group, this bit shall be set to 0.	 Yes, if UE supports VoLTE and UTRA FDD	Rel-8 Rel-9	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.
28	Support of - TTI bundling	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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.
			Yes	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	- set to 1 by category M1 UE that has implemented and successfully tested "Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 - UE selected subband CQI without PM"		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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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	- 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_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.
			Yes, if UE supports VoLTE	Rel-9, Rel-10			
	Support of - 5bit RLC UM SN - 7bit PDCP SN		Yes, if UE supports VoLTE. Yes, if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			
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				Rel-8		pc_FeatrGrp_5_T	

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	Support of - Long DRX cycle - DRX command MAC control element		Yes	Rel-9	36.331, Annex B.1		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.4.5-1a 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. 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.
			Yes	Rel-9			
7	Support of - RLC UM	- can only be set to 0 if the UE does not support voice		Rel-8	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 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.
			Yes, if UE supports VoLTE	Rel-9, Rel-10			
			Yes, if UE supports VoLTE. Yes, if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			
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 bit number 23 to 1		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. Set to true if supporting all functionalities in the feature group.
			Yes (except for category M1 UE), if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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.
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	 Yes (except for category M1 UE),, unless UE only supports band 13	Rel-8 Rel-9	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. 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		 Yes (except for category M1 UE),	Rel-8 Rel-9	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. 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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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 - If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_15_T	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 *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells*; - 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; and - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* 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 *triggerType* set to *event* and with *reportAmount* > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit.	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_16_T	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
	Support of - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells*; - 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 *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* 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 *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* 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 *triggerType* set to *event* and with *reportAmount* > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit.		Yes	Rel-9			
17	Support of Intra-frequency ANR features including: - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Intra-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 to 1. - If a category M1 UE does not support this feature group, this bit shall be set to 0.	 Yes	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_17_T	Corresponding to the Index of Indicator, the leftmost binary bit 17. 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 *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Inter-frequency periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 to 1. - If a category M1 UE does not support this feature group, this bit shall be set to 0.	 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	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
19	Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* 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 *triggerType* is set to *periodical* and *purpose* is set to *reportCGI* 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 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	36.331, Annex 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.
	Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* 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 *reportStrongestCellsForSON* 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 *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCellsForSON* for 1xRTT or HRPD, if the UE has set bit number 24 or 26 to 1, respectively.			Rel-9			
20	If bit number 7 is set to '0': - SRB1 and SRB2 for DCCH + 8x AM DRB If bit number 7 is set to '1': - SRB1 and SRB2 for DCCH + 8x AM DRB - SRB1 and SRB2 for DCCH + 5x AM DRB + 3x UM DRB NOTE: UE which indicate support for a DRB combination also support all subsets of the DRB combination. Therefore, release of DRB(s) never results in an unsupported DRB combination.	- Regardless of what bit number 7 and bit number 20 is set to, UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB - Regardless of what bit number 20 is set to, if bit number 7 is set to '1', UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB + 1x UM DRB		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 A.4.5-1a for FDD.
			Yes	Rel-9			

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	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 group.
	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			Rel-9			
23	Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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 group.
24	Support of - 1xRTT measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_24_T	Corresponding to the Index of Indicator, the leftmost binary bit 24. Set to true if supporting all functionalities in the feature group.
			Yes, if UE supports enhanced 1xRTT CSFB	Rel-9			
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 in FDD.	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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 group. 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.
			Yes, unless UE only supports band 13	Rel-9			
26				Rel-8		pc_FeatrGrp_26_T	

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	Support of - HRPD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes, if UE supports HRPD	Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 26. Set to true if supporting all functionalities in the feature group.
27	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH CS handover	- related to SR-VCC - can only be set to 1 if the UE has set bit number 8 to 1 and supports SR-VCC from EUTRA defined in TS 24.008 - If a category M1 UE does not support this feature group, this bit shall be set to 0.		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 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			Rel-9			
28	Support of - TTI bundling	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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.
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_T	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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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_T	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.
			Yes	Rel-10			
32	Undefined			Rel-8	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 32.

Table A.4.5-1c: 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 ANR features for UTRAN 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*	- can only be set to 1 if the UE has set 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 ANR features for GERAN including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set bit number 5 and bit number 23 to 1.		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 ANR features for 1xRTT 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*	- can only be set to 1 if the UE has set bit number 5 and bit number 24 to 1.		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 *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*	- can only be set to 1 if the UE has set bit number 5 and bit number 26 to 1.		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	- can only be set to 1 if the UE has set bit number 5 and at least one of the bit number 22 (for UEs supporting only UTRA TDD) or the bit number 39 to 1.		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.
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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	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_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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	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	DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments)			Rel-13	36.331, Annex B.1	pc_FeatrGrp_42_F	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	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.4.5-1e: Feature group indicators 33-64 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	Inter-RAT ANR features for UTRAN 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*	- can only be set to 1 if the UE has set bit number 5 and bit number 22 to 1.		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.
2	Inter-RAT ANR features for GERAN including: - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportStrongestCells* - Inter-RAT periodical measurement reporting where *triggerType* is set to *periodical* and *purpose* is set to *reportCGI*	- can only be set to 1 if the UE has set 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 *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*	- can only be set to 1 if the UE has set bit number 5 and bit number 24 to 1.		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 *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*	- can only be set to 1 if the UE has set bit number 5 and bit number 26 to 1.		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	- can only be set to 1 if the UE has set bit number 5 and at least one of the bit number 22 (for UEs supporting only UTRA TDD) or the bit number 39 to 1.		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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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	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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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	DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments)			Rel-13	36.331, Annex B.1	pc_FeatrGrp_42_T	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	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		25.331, Annex E	Rel-8	pc_UTRA_FeatrGrp_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_FeatrGrp_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.	25.331, Annex E	Rel-8 to Rel-10 Rel-11	pc_UTRA_FeatrGrp_3	Corresponding to the Index of Indicator, the leftmost binary bit 3 Set to true if supporting all functionalities in the feature group
4	Support of - 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.	25.331, Annex E	Rel-8 to Rel-10 Rel-11	pc_UTRA_FeatrGrp_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.
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.

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			
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 *tm9-With-8Tx-FDD-r10* 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.
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 *tm9-With-8Tx-FDD-r10* 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.

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 *tm9-With-8Tx-FDD-r10* is set to 'supported').		Rel-10	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.
		- 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 *tm9-With-8Tx-FDD-r10* is set to 'supported').		Rel-10	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.
		- 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_F	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_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.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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.
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.

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			
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 *tm9-With-8Tx-FDD-r10* 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_T	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_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 *tm9-With-8Tx-FDD-r10* 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 *tm9-With-8Tx-FDD-r10* 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 *tm9-With-8Tx-FDD-r10* 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 successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
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	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		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.

Table B.2-1: UE optional behaviour

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_PDNCR	

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.

Table B.3-1: TC Preambles specific information

Item	Preamble Title	Ref.	Specific ICS	Specific IXIT
1	UE Registration (State 2)	36.508, 4.5.2	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_disconnect pc_Attach pc_Combined_Attach pc_Multiple_PDN pc_IMS_APN_default pc_Provide_IMS_APN pc_DSMIPv6 pc_RequestIPv6HAAddress_DuringAttach pc_RequestIPv4HAAddress_DuringAttach pb_ESM_InfoTransFlag_PDNCR pb_IPv4_DHCPv4_AAUP	

Annex C (informative): Change history

Date	TSG #	TSG Doc.	CR	Rev	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	0008		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		GCF Priority 1 - Applicability of new E-UTRA MAC test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092117	0011		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	0013		GCF Priority 2 - Addition of applicability for new idle mode and RRC test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092254	0014		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		GCF Priority 2 - Applicability for new idle mode test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092279	0016		Addition of Applicability New LTE Test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092404	0017		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	0020		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 frequencies	8.1.0	8.2.0
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	0023		GCF Priority 2: Applicability of new Cell Reselection test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092448	0024		Update of Applicability for Feature Group Indicators	8.1.0	8.2.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
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	0028		GCF Priority 1 - Update of applicability for RLC test cases	8.1.0	8.2.0
2009-05	RAN#44	R5-092769	0029		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	0033	-	GCF Priority 3 - Remove RRC test case 8.1.3.3 applicability	8.2.0	8.3.0
2009-09	RAN#45	R5-094302	0034	1	Update of Feature Group Indicators	8.2.0	8.3.0
2009-09	RAN#45	R5-094404	0035	-	GCF Priority 2 - Applicability Statement for 8.3.2.1	8.2.0	8.3.0
2009-09	RAN#45	R5-094535	0036	-	Update of Applicability for PDCP tc based on FGI	8.2.0	8.3.0
2009-09	RAN#45	R5-094683	0037	-	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	0044	-	Applicability for Idle Mode test cases	8.2.0	8.3.0
2009-11	GERAN #44	GP-092406	0045	-	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	0047	-	Applicability of new/removed RRC Part 2 test cases	8.3.0	8.4.0
2009-12	RAN#46	R5-095483	0048	-	Applicability of new ESM test cases	8.3.0	8.4.0
2009-12	RAN#46	R5-095526	0049	-	GCF Priority 1 - Update of RLC test case applicability	8.3.0	8.4.0
2009-12	RAN#46	R5-095673	0050	-	Applicability for new IDLE MODE test case 6.1.2.13	8.3.0	8.4.0
2009-12	RAN#46	R5-095797	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	0053	-	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	0060	-	Update of Applicability table for Multi-layer Procedure test cases	8.3.0	8.4.0
2009-12	RAN#46	R5-096705	0062	-	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	0063	-	Addition of applicability for new multi-layer test case	8.4.0	8.5.0
2010-03	RAN#47	R5-100179	0064	-	Applicability for new EMM test case 9.2.1.2.14	8.4.0	8.5.0
2010-03	RAN#47	R5-100286	0065	-	Update of Applicability table of TC 8.4.2.4	8.4.0	8.5.0
2010-03	RAN#47	R5-100333	0066	-	Addition of TDD RF Baseline Implementation Capabilities	8.4.0	8.5.0
2010-03	RAN#47	R5-100479	0067	-	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	0070	-	GCF Priority 3 - Adding TC 9-1-5-1 EMM Information Procedure applicability	8.4.0	8.5.0
2010-03	RAN#47	R5-101143	0071	-	Addition of applicability for new LTE-C2k interworking test cases	8.4.0	8.5.0
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	RAN#47	R5-101194	0073	-	Applicability of new RRC part 1 test case	8.4.0	8.5.0
2010-03	RAN#47	R5-101195	0074	-	Correcting applicability and PICS for EMM test cases	8.4.0	8.5.0
2010-03	RAN#47	R5-101196	0075	-	Removal of LTE test cases 9.3.1.2 and 10.5.2	8.4.0	8.5.0
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	0078	-	Update of applicability of ESM test cases	8.4.0	8.5.0
2010-03	RAN#47	RP-100116	0079	-	Test Case titles alignment	8.4.0	8.5.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
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	GP-100627	0080		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	0081		New test cases for GERAN to LTE added Part 2	9.0.0	9.1.0
2010-06	RAN#48	R5-103122	0082	-	Adding band 20 and 21 to TS36.523-2	9.0.0	9.1.0
2010-06	RAN#48	R5-103146	0083	-	GCF Priority 4 - Addition of applicability statement for E-UTRAN test case 14.1 and 14.2	9.0.0	9.1.0
2010-06	RAN#48	R5-103246	0094	-	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	0085	-	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	R5-103370	0087	-	GCF Priority 3: New TC 9.3.1.6 applicability	9.0.0	9.1.0
2010-06	RAN#48	R5-103621	0088	-	Correction for feature group indicators in Annex A.4.5	9.0.0	9.1.0
2010-06	RAN#48	R5-103874	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	0090	-	GCF Priority 3: Applicability statements for new P3&P4 TCs	9.0.0	9.1.0
2010-06	RAN#48	R5-103879	0091	-	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	GERAN#47	GP-101176	0095	-	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	0096	-	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	0097	-	CR 36.523-2-0097 Addition of new GELTE test cases- 6.2.3.27 and 6.2.3.29	9.1.2	9.2.0
2010-09	GERAN#47	GP-101565	0098	-	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	0099	-	Correction to test case applicability C41	9.1.2	9.2.0
2010-09	RAN#49	R5-104116	0100	-	Addition of applicability for new EMM test case	9.1.2	9.2.0
2010-09	RAN#49	R5-104117	0101	-	Update of applicability for EMM test case 9.2.1.1.4	9.1.2	9.2.0
2010-09	RAN#49	R5-104290	0102	-	GCF Priority 4 - Addition of applicability statement for E-UTRAN test case 14.3	9.1.2	9.2.0
2010-09	RAN#49	R5-104315	0103	-	Add pics for IMS	9.1.2	9.2.0
2010-09	RAN#49	R5-104337	0104	-	Applicability of new EMM TCs	9.1.2	9.2.0
2010-09	RAN#49	R5-104338	0105	-	Applicability of new IDLE mode TCs	9.1.2	9.2.0
2010-09	RAN#49	R5-104339	0106	-	Applicability of new RRC part 1 TCs	9.1.2	9.2.0
2010-09	RAN#49	R5-104391	0107	-	Removal of applicability for DSMIPv6 test case 15.3	9.1.2	9.2.0
2010-09	RAN#49	R5-104540	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	0110	-	Applicability for new test case 8.2.4.12	9.1.2	9.2.0
2010-09	RAN#49	R5-104641	0111	-	Applicability for new emergency call TC	9.1.2	9.2.0
2010-09	RAN#49	R5-104642	0112	-	Add capability for IMS emergency call	9.1.2	9.2.0
2010-09	RAN#49	R5-105029	0113	-	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	0114	-	Correction to test case applicability condition C59	9.1.2	9.2.0
2010-09	RAN#49	R5-105037	0115	-	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	0116	-	Correction to test case applicability for test cases 12.3.3 & 12.3.4	9.1.2	9.2.0
2010-09	RAN#49	R5-105042	0117	-	Addition of some EMM TCs applicability to 36.523-2	9.1.2	9.2.0
2010-09	RAN#49	R5-105043	0118	-	Corrections to applicability conditions C58 and C65	9.1.2	9.2.0
2010-09	RAN#49	R5-105044	0119	-	GCF Priority X: Adding applicability of new ESM test case 10.9.1 for UE routing of uplinks packets	9.1.2	9.2.0
2010-09	RAN#49	R5-105045	0120	-	Addition of applicability statement of new TC 6.3.3	9.1.2	9.2.0
2010-09	RAN#49	R5-105048	0121	-	GCF Priority 2 - Addition of applicability statement for E-UTRAN test case 6.2.3.4	9.1.2	9.2.0
2010-09	RAN#49	R5-105049	0122	-	GCF Priority 2 - Correction of applicability statement for E-UTRAN test case 8.1.3.7, 8.4.2.2 & 8.4.2.4	9.1.2	9.2.0
2010-09	RAN#49	R5-104766	0124	-	GCF Priority 2 - Correction to EUTRA RRC Test Case 8.3.1.9	9.1.2	9.2.0
2010-09	RAN#49	R5-104775	0125	-	Addition of applicabilities for new test cases	9.1.2	9.2.0
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	0127	-	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	0132	-	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

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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	0137	-	Applicability of new RRC part 1 TC	9.2.0	9.3.0
2010-12	RAN#50	R5-106259	0138	-	Applicability of new Multilayer Procedures TC	9.2.0	9.3.0
2010-12	RAN#50	R5-106299	0139	-	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	0157	-	Correction to applicability of tests conditions for inter-RAT TCs	9.3.0	9.4.0
2011-03	RAN#51	R5-110314	0158	-	GCF Priority 4 - Correction to 8.2.4.10 test applicability	9.3.0	9.4.0
2011-03	RAN#51	R5-110315	0159	-	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	-	Addition of applicability for new test case on emergency call in non-allowed CSG cell	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	0164	-	Addition of applicability for new test case 6.3.2	9.3.0	9.4.0
2011-03	RAN#51	R5-110476	0165	-	GCF Priority 4: Applicability for New TC 13.1.9	9.3.0	9.4.0
2011-03	RAN#51	R5-110480	0166	-	Applicability for New IMS Emergency TCs	9.3.0	9.4.0
2011-03	RAN#51	R5-110537	0167	-	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
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	0170	-	GCF Priority 3 - Correction to applicability of EMM test case 9.1.5.1	9.3.0	9.4.0
2011-03	RAN#51	R5-110720	0171	-	GCF Priority 1 - Addition of applicability for multiple PDN	9.3.0	9.4.0

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2011-03	RAN#51	R5-110761	0172	-	GCF Priority 3 - Correction to selection expression for SPS scheduling and TTI bundling test cases	9.3.0	9.4.0
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	0174	-	GCF Priority 3-add part2 for TC 9.2.3.2.1a	9.3.0	9.4.0
2011-03	RAN#51	R5-110780	0175	-	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	9.3.0	9.4.0
2011-03	RAN#51	R5-110801	0179	-	Clarification to applicability of measurements requirements for Inter-RAT	9.3.0	9.4.0
2011-06	RAN#52	R5-112132	0190	-	Correction to Band 12 frequency range in 36.523-2	9.4.0	9.5.0
2011-06	RAN#52	R5-112163	0191	-	Applicability of new Multi-layer Procedure TCs	9.4.0	9.5.0
2011-06	RAN#52	R5-112179	0192	-	Add applicability for GCF Priority 3 TC 9.2.3.3.5a	9.4.0	9.5.0
2011-06	RAN#52	R5-112272	0193	-	Applicability of new test case 9.2.3.1.22	9.4.0	9.5.0
2011-06	RAN#52	R5-112273	0194	-	Add capability for SRVCC	9.4.0	9.5.0
2011-06	RAN#52	R5-112277	0195	-	Add GSMA PRD IR.92 IMS voice capability	9.4.0	9.5.0
2011-06	RAN#52	R5-112292	0196	-	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	0197	-	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	0198	-	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	0199	-	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	0201	-	Addition of band 24 in Table A.4.3.1-1	9.4.0	9.5.0
2011-06	RAN#52	R5-112512	0202	-	Applicability for new TC for IMS Emergency 11.2.7	9.4.0	9.5.0
2011-06	RAN#52	R5-112530	0203	-	GCF Priority 4 -:Applicability for new LTE CSFB TC 13.1.10	9.4.0	9.5.0
2011-06	RAN#52	R5-112568	0204	-	GCF Priority 3 - Correction to applicability condition for TC 9.2.3.1.25	9.4.0	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	0206	-	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	0207	-	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	0208	-	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	RAN#52	R5-112637	0209	-	Addition applicability condition for test Case 13.3.2.1 in 36.523-2	9.4.0	9.5.0
2011-06	RAN#52	R5-112655	0210	-	Add applicability for test case 11.2.2	9.4.0	9.5.0
2011-06	RAN#52	R5-112656	0211	-	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	0214	-	Addition of applicability statement for E-UTRAN test case 9.2.3.1.9 for normal tracking area update / Correct handling of CSG list	9.4.0	9.5.0
2011-06	RAN#52	R5-112669	0215	-	Add applicability for new test case 13.4.3.1	9.4.0	9.5.0
2011-06	RAN#52	R5-112670	0216	-	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	0218	-	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	0219	-	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	R5-112704	0220	-	GCF priority 4 - Addition of applicability for new EMM test case 9.2.3.3.3	9.4.0	9.5.0
2011-06	RAN#52	R5-112758	0200	-	Addition of applicability for new test case 9.2.2.1.10	9.4.0	9.5.0
2011-06	GERAN#50	GP-110833	0222	-	CR 36.523-2-0222 Addition of new Test cases 8.4.4.2 and 8.4.4.3	9.4.0	9.5.0
2011-06	GERAN#50	GP-110840	0186	1	CR 36.523-2-0186 Applicability correction for Geran to Eutran test cases	9.4.0	9.5.0
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

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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	0226	-	Applicability of new E-UTRA MAC test case for padding BSR	9.5.0	9.6.0
2011-09	RAN#53	R5-113398	0227	-	Add applicability for SRVCC test cases	9.5.0	9.6.0
2011-09	RAN#53	R5-113612	0228	-	Update IMS emergency applicability	9.5.0	9.6.0
2011-09	RAN#53	R5-113631	0229	-	GCF Priority 2: Correction to condition C97	9.5.0	9.6.0
2011-09	RAN#53	R5-113669	0230	-	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	0236	-	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	0250	-	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	0251	-	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	0252	-	Addition of applicability statement for new Rel-9 test case 6.2.3.10a	9.6.0	9.7.0
2011-12	RAN#54	R5-115301	0253	-	Editorial correction to conditionals C32 and C33	9.6.0	9.7.0
2011-12	RAN#54	R5-115302	0254	-	Corrections to the applicability of CSG test cases	9.6.0	9.7.0
2011-12	RAN#54	R5-115312	0255	-	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	0256	-	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	0258	-	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	0259	-	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	0263	-	Update the title of test case 11.2.4	9.6.0	9.7.0
2011-12	RAN#54	R5-115643	0264	-	Removal of TC 11.2.9 Applicability	9.6.0	9.7.0
2011-12	RAN#54	R5-115714	0265	-	Addition of applicability statement for 1xCSFB emergency call	9.6.0	9.7.0
2011-12	RAN#54	R5-115715	0266	-	Clarification of Release-dependency in EUTRA test applicability	9.6.0	9.7.0
2011-12	RAN#54	R5-115716	0267	-	Correction to the title of test case 13.1.9 and 13.1.11 in TS 36.523-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115717	0268	-	Applicability of new test case for Dedicated RLF timer	9.6.0	9.7.0
2011-12	RAN#54	R5-115718	0269	-	Applicability of new test case for High speed flag	9.6.0	9.7.0
2011-12	RAN#54	R5-115719	0270	-	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	0271	-	Addition of applicability for new test case 6.2.3.1a	9.6.0	9.7.0
2011-12	RAN#54	R5-115799	0272	-	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	0273	-	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	0274	-	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
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	0279	-	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	0280	-	Addition of applicability statement for new Rel-9 test case 13.4.4.2	9.7.0	9.8.0

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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	0283	-	Update title for test case 11.2.2	9.7.0	9.8.0
2012-03	RAN#55	R5-120452	0284	-	Applicability of new test case 8.3.1.3a	9.7.0	9.8.0
2012-03	RAN#55	R5-120453	0285	-	Applicability of new test case 8.3.2.3a	9.7.0	9.8.0
2012-03	RAN#55	R5-120455	0286	-	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	0291	-	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	0296	-	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	0292	-	Applicability for new CA test cases	9.8.0	10.0.0
2012-03	RAN#55	R5-120745	0293	-	Applicability of new MDT test cases	9.8.0	10.0.0
2012-06	RAN#56	R5-121200	0303	-	Addition of applicability statement for new Rel-9 SRVCC test case 13.4.3.6	10.0.0	10.1.0
2012-06	RAN#56	R5-121204	0304	-	GCF priority x - Update applicability of test case 6.1.1.1a	10.0.0	10.1.0
2012-06	RAN#56	R5-121213	0305	-	Applicability of new MDT test cases 8.6.2.5	10.0.0	10.1.0
2012-06	RAN#56	R5-121215	0306	-	Applicability of new MDT test cases 8.6.2.6	10.0.0	10.1.0
2012-06	RAN#56	R5-121217	0307	-	Applicability of new MDT test cases 8.6.2.7	10.0.0	10.1.0
2012-06	RAN#56	R5-121220	0308	-	Applicability of new MDT test cases 8.6.2.8	10.0.0	10.1.0
2012-06	RAN#56	R5-121224	0309	-	Adding operating band 26 to TS 36.523-2	10.0.0	10.1.0
2012-06	RAN#56	R5-121302	0310	-	Correction to applicability for test case 9.2.3.3.5a	10.0.0	10.1.0
2012-06	RAN#56	R5-121399	0311	-	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	0313	-	GCF Priority 2 and 3 - Removal of 'Active' flag test cases from 36.523-2	10.0.0	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	0315	-	Update of Number of TC Executions for multi-frequency TCs	10.0.0	10.1.0
2012-06	RAN#56	R5-121512	0316	-	Introduction of applicability of new PWS test case 18.1.4	10.0.0	10.1.0
2012-06	RAN#56	R5-121542	0317	-	Addition of new PICS item	10.0.0	10.1.0
2012-06	RAN#56	R5-121638	0318	-	Add applicability for TC 11.2.11	10.0.0	10.1.0
2012-06	RAN#56	R5-121670	0319	-	GCF Priority 3 - Update of applicability for EMM test case 9.2.2.1.7	10.0.0	10.1.0
2012-06	RAN#56	R5-121741	0320	-	GCF Priority 2: Addition of applicability for equivalent EMM test cases for single frequency operation	10.0.0	10.1.0
2012-06	RAN#56	R5-121751	0321	-	GCF priority 3 - Correction to applicability of idle mode test case 6.2.2.5	10.0.0	10.1.0
2012-06	RAN#56	R5-121752	0322	-	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	0326	-	Correction to applicability of EMM test cases 9.2.3.1.9, 9.2.1.2.1b, 9.2.2.1.4 and 9.2.3.2.1b	10.0.0	10.1.0
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	0328	-	Correction of TC release	10.0.0	10.1.0
2012-06	RAN#56	R5-121827	0329	-	Applicability of new UTRAN ANR/E-UTRAN test case	10.0.0	10.1.0
2012-06	RAN#56	R5-121845	0330	-	Applicability of new test case for RLF reporting	10.0.0	10.1.0

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2012-06	RAN#56	R5-121864	0331	-	Correction of CA TC 8.2.4.17 Applicability, and removal of TC 8.2.4.16	10.0.0	10.1.0
2012-06	RAN#56	R5-121867	0332	-	Applicability of new CA test case for intra-frequency handover	10.0.0	10.1.0
2012-06	RAN#56	R5-121868	0333	-	Introduction of applicability of new Rel10 CA test case	10.0.0	10.1.0
2012-06	RAN#56	R5-122117	0334	-	Addition and Update of applicability statement for Rel-9 e1xCSFB test cases	10.0.0	10.1.0
2012-06	RAN#56	R5-122118	0335	-	Clarification of PICS conditions	10.0.0	10.1.0
2012-06	RAN#56	R5-122123	0336	-	Applicability for new MDT TCs	10.0.0	10.1.0
2012-06	RAN#56	R5-122128	0337	-	Addition of applicability statement for new PWS Rel-9 test case 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	10.1.1
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	0342	-	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	0345	-	Correction to applicability of CA TC 7.1.3.11	10.1.1	10.2.0
2012-09	RAN#57	R5-123243	0346	-	GCF Priority X - Correction to applicability of Rel9 EUTRA Interband test cases	10.1.1	10.2.0
2012-09	RAN#57	R5-123260	0347	-	Clarify support for ROHC	10.1.1	10.2.0
2012-09	RAN#57	R5-123320	0348	-	Correction to PICS conditions	10.1.1	10.2.0
2012-09	RAN#57	R5-123353	0349	-	Clarification of EMM TC applicability	10.1.1	10.2.0
2012-09	RAN#57	R5-123419	0352	-	Addition of applicability statement for E-UTRAN test case 13.4.1.5	10.1.1	10.2.0
2012-09	RAN#57	R5-123425	0353	-	Introduction of new PICS for PWS	10.1.1	10.2.0
2012-09	RAN#57	R5-123484	0355	-	Applicability for new CA test cases	10.1.1	10.2.0
2012-09	RAN#57	R5-123551	0357	-	GCF priority 4 - Correction to EMM test case 9.3.1.18 test case applicability	10.1.1	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	0359	-	GCF Priority 3 - Correction to applicability statement of EMM test case 9.2.2.1.3	10.1.1	10.2.0
2012-09	RAN#57	R5-123639	0360	-	GCF Priority 2: Introduction of missing applicability for test case 9.2.1.1.7a	10.1.1	10.2.0
2012-09	RAN#57	R5-123679	0361	-	GCF Priority X: Addition of Applicability for new Inter band test case 6.1.2.15b	10.1.1	10.2.0
2012-09	RAN#57	R5-123707	0362	-	Corrections to title of 8.6.5.3 and applicability of test case 8.6.5.1	10.1.1	10.2.0
2012-09	RAN#57	R5-123710	0363	-	Addition of applicability statement for new eICIC test cases	10.1.1	10.2.0
2012-09	RAN#57	R5-123750	0364	-	Upgrade LTE-UTRA TDD TCs to Rel-9	10.1.1	10.2.0
2012-09	RAN#57	R5-123764	0365	-	Addition of applicability statement for new CA test case 8.4.2.7	10.1.1	10.2.0
2012-09	RAN#57	R5-123765	0366	-	Correction of CA TCs Applicability	10.1.1	10.2.0
2012-09	RAN#57	R5-123368	0350	-	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	0354	-	Addition of applicability statement for new ZUC Rel-11 test cases	10.2.0	11.0.0
2012-12	RAN#58	R5-125075	0367	-	GCF P3: Update of applicability of TC 9.2.1.1.19	11.0.0	11.1.0
2012-12	RAN#58	R5-125117	0368	-	Addition of new PICS for Support of automatic ATTACH in E-UTRAN	11.0.0	11.1.0
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	0370	-	Split of CA TC 7.1.3.11 Applicability	11.0.0	11.1.0
2012-12	RAN#58	R5-125208	0371	-	Update of EMM TC applicability	11.0.0	11.1.0
2012-12	RAN#58	R5-125270	0372	-	GCF Priority 3 - Correction to applicability for test case 6.2.2.5	11.0.0	11.1.0
2012-12	RAN#58	R5-125277	0373	-	Additional information applicability to TDD devices	11.0.0	11.1.0
2012-12	RAN#58	R5-125282	0374	-	Editorial updates to 36.523-2	11.0.0	11.1.0
2012-12	RAN#58	R5-125286	0375	-	Correction to applicability condition C134 for Carrier Aggregation	11.0.0	11.1.0
2012-12	RAN#58	R5-125348	0376	-	Adding bands 28 and 44 to TS36.523-2	11.0.0	11.1.0
2012-12	RAN#58	R5-125406	0377	-	Addition of applicability of new E-UTRAN MDT test cases	11.0.0	11.1.0
2012-12	RAN#58	R5-125524	0378	-	Applicability of new MDT test cases	11.0.0	11.1.0
2012-12	RAN#58	R5-125637	0380	-	GCF Priority X - Correction to applicability of Rel9 EUTRA Interband test cases	11.0.0	11.1.0
2012-12	RAN#58	R5-125727	0382	-	GCF Priority 4: Corrections to user PLMN reselection test cases	11.0.0	11.1.0
2012-12	RAN#58	R5-125745	0383	-	Introduction of Band 27 to TS 36.523-2	11.0.0	11.1.0
2012-12	RAN#58	R5-125760	0384	-	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

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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	0388	-	Applicability of new test cases for aSRVCC	11.0.0	11.1.0
2012-12	RAN#58	R5-126009	0389	-	Applicability for split CA test cases 7.1.4.19 and 7.1.4.20	11.0.0	11.1.0
2012-12	RAN#58	R5-126010	0390	-	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	0393	-	Addition of reference to TS 34.229-2	11.1.0	11.2.0
2013-03	RAN#59	R5-130090	0394	-	Corrections to inter-RAT(UTRA to EUTRA) TCs applicability	11.1.0	11.2.0
2013-03	RAN#59	R5-130181	0395	-	Adding applicability for new aSRVCC TCs 13_4_3_15 and 13_4_3_17	11.1.0	11.2.0
2013-03	RAN#59	R5-130193	0396	-	Addition of new PICS for supporting Update UE Location Information	11.1.0	11.2.0
2013-03	RAN#59	R5-130339	0397	-	Applicability of new MDT test cases	11.1.0	11.2.0
2013-03	RAN#59	R5-130359	0398	-	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	0399	-	Update of single-multiple frequency tests execution	11.1.0	11.2.0
2013-03	RAN#59	R5-130368	0400	-	Correction to the EPS capability PICS	11.1.0	11.2.0
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	11.1.0	11.2.0
2013-03	RAN#59	R5-130446	0402	-	Correction to CA physical layer implementation capabilities	11.1.0	11.2.0
2013-03	RAN#59	R5-130447	0403	-	Addition of CA physical layer implementation capabilities for CA_4-5 and CA_4-13	11.1.0	11.2.0
2013-03	RAN#59	R5-130473	0404	-	Updating spec titles in References	11.1.0	11.2.0
2013-03	RAN#59	R5-130667	0405	-	GCF Priority X-Correction to applicability of TC 6.2.3.33	11.1.0	11.2.0
2013-03	RAN#59	R5-130668	0406	-	Addition of Applicability for new SMS test cases 11.1.5 and 11.1.6	11.1.0	11.2.0
2013-03	RAN#59	R5-130724	0407	-	Addition of applicability of new NIMTC test cases	11.1.0	11.2.0
2013-03	RAN#59	R5-130731	0408	-	Addition of applicability statement for new MDT test case	11.1.0	11.2.0
2013-03	RAN#59	R5-130736	0409	-	Applicability of new test cases for event A5 measurement report	11.1.0	11.2.0
2013-03	RAN#59	R5-130737	0414	-	Correction to applicability of Rel9 EUTRA PWS test cases	11.1.0	11.2.0
2013-03	RAN#59	R5-130744	0410	-	Correction of applicability for EUTRA-1xRTT test case 8.4.7.3 and 8.4.7.4	11.1.0	11.2.0
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	0412	-	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	11.2.0
2013-03	RAN#59	-	-	-	history box error fix	11.2.0	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	0415	-	Removal of TC 6.2.3.22 from applicability table	11.2.2	11.3.0
2013-06	RAN#60	R5-131144	0416	-	ICS Correction to Idle Mode TC6.3.10	11.2.2	11.3.0
2013-06	RAN#60	R5-131219	0417	-	GCF Priority 4 - Correction to applicability criteria for EUTRA Test case 6.2.1.4	11.2.2	11.3.0
2013-06	RAN#60	R5-131246	0418	-	Addition of new CA Band and CA Band Combination for supported CA configurations for signalling test	11.2.2	11.3.0
2013-06	RAN#60	R5-131321	0419	-	Addition of new PICS pc_KeepEpsBearerParametersAfterNormalDetach	11.2.2	11.3.0
2013-06	RAN#60	R5-131388	0420	-	Applicability for new TC 8.3.4.5 Inter-frequency E-UTRAN FDD - FDD / CSG Proximity Indication	11.2.2	11.3.0
2013-06	RAN#60	R5-131451	0421	-	Addition of CA physical layer implementation capabilities for CA_1-19 and CA_1-21	11.2.2	11.3.0
2013-06	RAN#60	R5-131455	0422	-	Update pics for CSFB and IMS devices	11.2.2	11.3.0
2013-06	RAN#60	R5-131493	0423	-	Update pics pc_CS	11.2.2	11.3.0
2013-06	RAN#60	R5-131495	0424	-	GCF Priority X - Correction to applicability of RSRQ TC 6.2.3.1a	11.2.2	11.3.0
2013-06	RAN#60	R5-131497	0425	-	GCF Priority X - Correction to applicability of test case 13.1.2a	11.2.2	11.3.0
2013-06	RAN#60	R5-131499	0426	-	GCF Priority X - Correction to applicability of test case 8.1.3.6a	11.2.2	11.3.0
2013-06	RAN#60	R5-131690	0427	-	Addition of Inter-Band CA configurations for CA_2-17 and CA_4-17	11.2.2	11.3.0
2013-06	RAN#60	R5-131714	0428	-	Addition of operating band 29 to TS 36.523-2	11.2.2	11.3.0
2013-06	RAN#60	R5-131715	0429	-	Addition of PICS items for Rel-10 UE category 6-8	11.2.2	11.3.0
2013-06	RAN#60	R5-131862	0430	-	Applicability of new test cases for setting the FGI 28.	11.2.2	11.3.0
2013-06	RAN#60	R5-131863	0431	-	GCF Priority 2: Changing the TC 9.1.4.2 title	11.2.2	11.3.0
2013-06	RAN#60	R5-131864	0432	-	Splitting TC 11.2.8 in two TCs one for UTRA/GERAN and one for 1xRTT - Applicability	11.2.2	11.3.0

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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
2013-06	RAN#60	R5-131869	0434	-	Update of Applicability of test case 8.3.3.5	11.2.2	11.3.0
2013-06	RAN#60	R5-131893	0435	-	Adding applicability for new NIMTC test cases	11.2.2	11.3.0
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
2013-09	RAN#61	R5-133353	0448	-	Addition of applicability for new eICIC test case 8.3.1.21	11.3.0	11.4.0
2013-09	RAN#61	R5-133413	0449	-	Addition of applicability of new test cases for eMDT	11.3.0	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
2013-09	RAN#61	R5-133607	0452	-	Update Applicability for ZUC test cases	11.3.0	11.4.0
2013-09	RAN#61	R5-133608	0453	-	Execution of TCs when UE supports a single E-UTRA band	11.3.0	11.4.0
2013-09	RAN#61	R5-133609	0454	-	Updating specific condition for setting the FGI 28.	11.3.0	11.4.0
2013-09	RAN#61	R5-133625	0455	-	Correction of CA test case entries in applicability table	11.3.0	11.4.0
2013-09	RAN#61	R5-133626	0456	-	Addition of UE capability information Bandwidth Combination Set for Carrier Aggregation in ICS proforma tables	11.3.0	11.4.0
2013-09	RAN#61	R5-133627	0457	-	Addition of CA physical layer implementation capabilities for CA_3-5	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
2013-09	RAN#61	R5-133678	0459	-	Applicability for new power preference indication test cases	11.3.0	11.4.0
2013-09	RAN#61	R5-133681	0460	-	Applicability for new ePDCCH related test cases	11.3.0	11.4.0
2013-09	RAN#61	R5-133697	0461	-	Define new test applicability for MFBI signalling test cases	11.3.0	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
2013-09	RAN#61	R5-133702	0464	-	Applicability of new eMBMS service continuity test cases	11.3.0	11.4.0
2013-09	RAN#61	R5-133731	0444	-	Applicability of new eICIC test case 8.3.1.27	11.3.0	11.4.0
2013-12	RAN#62	R5-134090	0465	-	Editorial correction to Test Case Applicability Table 4-1	11.4.0	11.5.0
2013-12	RAN#62	R5-134112	0466	-	Applicability of new test case 8.1.3.12b	11.4.0	11.5.0
2013-12	RAN#62	R5-134245	0467	-	Applicability of new eMBMS SC test cases	11.4.0	11.5.0
2013-12	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
2013-12	RAN#62	R5-134392	0471	-	Correction of editorial issues in ICS proforma specification	11.4.0	11.5.0
2013-12	RAN#62	R5-134567	0472	-	Correction to the applicability of CSG test cases	11.4.0	11.5.0
2013-12	RAN#62	R5-134571	0473	-	Correction to the item number of Table A.4.5-1c, 4.5-1d, 4.5-1e and 4.5.3	11.4.0	11.5.0
2013-12	RAN#62	R5-134671	0474	-	Addition of applicability for test case 9.2.1.1.7b	11.4.0	11.5.0
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
2013-12	RAN#62	R5-134772	0479	-	Correction to Selection Expressions for SMS over SGs test cases	11.4.0	11.5.0
2013-12	RAN#62	R5-134773	0480	-	Correction to applicability of SRVCC test cases 13.4.3.3 and 13.4.3.5	11.4.0	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
2013-12	RAN#62	R5-134783	0482	-	Split of CA Test Case 8.4.2.7	11.4.0	11.5.0
2013-12	RAN#62	R5-134952	0484	-	Add applicabilities for test cases 6.2.4.1 and 6.2.4.3	11.4.0	11.5.0
2013-12	RAN#62	R5-135006	0485	-	Removal of TC 6.3.10, 6.3.11, 6.3.12	11.4.0	11.5.0
2013-12	RAN#62	R5-135009	0486	-	Applicability for Rel-11 CA enhancements related new test cases	11.4.0	11.5.0
2013-12	RAN#62	R5-134367	0470	-	Addition of Inter-Band CA configurations for CA_1A-26A	11.5.0	12.0.0
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	0483	-	Addition of CA physical layer implementation capabilities for CA_3-19 and CA_19-21	11.5.0	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	0488	-	Correct applicabilities for test cases 6.2.4.1 and 6.2.4.3	12.0.0	12.1.0

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2014-03	RAN#63	R5-140590	0489	-	Removal of pc_ETWS_message_security PICS	12.0.0	12.1.0
2014-03	RAN#63	R5-140782	0490	-	Various updates to 36.523-2	12.0.0	12.1.0
2014-03	RAN#63	R5-140783	0491	-	Addition of the applicability of eMDT test cases	12.0.0	12.1.0
2014-03	RAN#63	R5-140784	0492	-	Update the applicability of EMM test case	12.0.0	12.1.0
2014-03	RAN#63	R5-140785	0493	-	Update to applicability of inter-mode test cases	12.0.0	12.1.0
2014-03	RAN#63	R5-140786	0494	-	Correction to pc_UL_MIMO PICS	12.0.0	12.1.0
2014-03	RAN#63	R5-140790	0495	-	Addition of Intra-band contiguous CA for signalling test	12.0.0	12.1.0
2014-03	RAN#63	R5-140939	0496	-	Applicability of new eMBMS SC test cases	12.0.0	12.1.0
2014-03	RAN#63	R5-140941	0497	-	Applicability of new eICIC test case	12.0.0	12.1.0
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	12.1.0
2014-03	RAN#63	R5-140966	0500	-	Addition of applicability for bSRVCC test cases 13.4.3.21, 13.4.3.22 and 13.4.3.23	12.0.0	12.1.0
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	0503	-	Addition of applicability for new aSRVCC test cases	12.0.0	12.1.0
2014-03	RAN#63	R5-141112	0504	-	Introduction of UE CA Inter-band uplink capabilities	12.0.0	12.1.0
2014-03	RAN#63	R5-141138	0501	-	Applicability of new test cases for bSRVCC	12.0.0	12.1.0
2014-06	RAN#64	R5-142115	0505	-	Addition of CA 3A-28A to 36.523-2	12.1.0	12.2.0
2014-06	RAN#64	R5-142230	0506	-	Editorial correction to "Supported CA configurations for Intra-band contiguous CA" table	12.1.0	12.2.0
2014-06	RAN#64	R5-142267	0507	-	Correcting applicability of 9.2.3.2.12	12.1.0	12.2.0
2014-06	RAN#64	R5-142300	0508	-	Updates of Table A.4.3.3.3-3 for CA_3A-26A and CA_3A-27A	12.1.0	12.2.0
2014-06	RAN#64	R5-142323	0509	-	Correction in Applicability of tests Conditions (C81) for Multi-layer test case 13.1.4 and 13.1.5	12.1.0	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	0512	-	Applicability of new EPS test cases	12.1.0	12.2.0
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	0514	-	Correction to Note 1 in Inter-band CA table A.4.3.3.3-3	12.1.0	12.2.0
2014-06	RAN#64	R5-142451	0515	-	Correction to Applicability of MDT Test Case 8.6.2.9 and Update to pc_standaloneGNSS-Location Applicability Comment	12.1.0	12.2.0
2014-06	RAN#64	R5-142484	0516	-	Correct applicabilities for test cases 6.2.4.1, 6.2.4.3-4 and 6.2.4.6	12.1.0	12.2.0
2014-06	RAN#64	R5-142584	0517	-	Update of FGI definitions in TS 36.523-2	12.1.0	12.2.0
2014-06	RAN#64	R5-142648	0518	-	Addition of new ICS item for E-UTRAN CSG proximity test	12.1.0	12.2.0
2014-06	RAN#64	R5-142673	0519	-	Addition of CA_27B related information into A.4.3.3 in TS 36.523-2	12.1.0	12.2.0
2014-06	RAN#64	R5-142726	0520	-	APN configuration for IR.92 devices	12.1.0	12.2.0
2014-06	RAN#64	R5-142730	0521	-	Correction of NITZ capabilities	12.1.0	12.2.0
2014-06	RAN#64	R5-142773	0522	-	Addition of CA_2A-4A and CA_5A-7A to 36.523-2 Annex A4	12.1.0	12.2.0
2014-06	RAN#64	R5-142779	0523	-	Applicability of new NIMTC test case 6.1.1.7a	12.1.0	12.2.0
2014-06	RAN#64	R5-142816	0524	-	Update 7.1.4.18 and 7.1.4.21 to non-CA test cases	12.1.0	12.2.0
2014-06	RAN#64	R5-142891	0525	-	Correction to the Applicability of LAP and EAB test cases	12.1.0	12.2.0
2014-06	RAN#64	R5-142892	0526	-	Correction to the Applicability comments of some test cases	12.1.0	12.2.0
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	0528	-	Update conditions in Table4-1a for CS fall back test cases	12.1.0	12.2.0
2014-06	RAN#64	R5-142895	0529	-	Correction to Applicability of EUTRA eMDT Test Case 8.6.5.1a and Addition of New PICS	12.1.0	12.2.0
2014-06	RAN#64	R5-142896	0530	-	Update of test case 8.3.3.3 applicability test condition	12.1.0	12.2.0
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	-	Addition of PICS for IPv4 and IPv6	12.1.0	12.2.0
2014-06	RAN#64	R5-142915	0535	-	Applicability of new eMBMS test case 17.4.1a	12.1.0	12.2.0
2014-06	RAN#64	R5-142916	0536	-	Correction to applicability table for eMBMS test cases	12.1.0	12.2.0
2014-06	RAN#64	R5-142927	0537	-	Applicability of new Intra-band non-Contiguous CA test cases	12.1.0	12.2.0
2014-06	RAN#64	R5-142935	0538	-	Adding new test cases for further Enhancements to CELL-FACH	12.1.0	12.2.0
2014-06	RAN#64	R5-142939	0539	-	Correction to Applicability of CA Test Cases 7.1.4.19.2 and 7.1.4.20.2	12.1.0	12.2.0
2014-06	RAN#64	R5-142980	0540	-	Addition of release applicable in Release column for CA enh test cases	12.1.0	12.2.0
2014-06	RAN#64	R5-142981	0541	-	Addition of applicability for new Intra-band non-Contiguous CA test cases	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

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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	12.2.2
2014-09	RAN#65	R5-144079	0544	-	Addition of E-UTRA FDD Band 30 information to Annex A.4	12.2.2	12.3.0
2014-09	RAN#65	R5-144253	0545	-	Remove LTE MDT Test cases on PLMN change	12.2.2	12.3.0
2014-09	RAN#65	R5-144255	0546	-	Add IMS APN configuration for IR.92 devices	12.2.2	12.3.0
2014-09	RAN#65	R5-144309	0547	-	Addition of test applicability for new TCs - Intra-band non-contiguous CA	12.2.2	12.3.0
2014-09	RAN#65	R5-144330	0548	-	Update of FGI definitions in TS 36.523-2	12.2.2	12.3.0
2014-09	RAN#65	R5-144338	0549	-	Update of MDT test case 8.6.5.2 applicability	12.2.2	12.3.0
2014-09	RAN#65	R5-144407	0550	-	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 36.523-2 Annex A4	12.2.2	12.3.0
2014-09	RAN#65	R5-144503	0552	-	CA: Review of CA capabilities tables (Sig)	12.2.2	12.3.0
2014-09	RAN#65	R5-144506	0553	-	New CA band combination CA_NC_42 and CA_4-27-Update to 36.523-2	12.2.2	12.3.0
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	0555	-	Addition of applicability for new test case, Inter-RAT Cell reselection EUTRAN to UTRAN MFBI test case 6.2.3.34	12.2.2	12.3.0
2014-09	RAN#65	R5-144677	0556	-	Remove applicability of test case 13.4.3.29 and 13.4.3.17	12.2.2	12.3.0
2014-09	RAN#65	R5-144681	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	12.3.0
2014-09	RAN#65	R5-144726	0558	-	Addition of applicability for new UL CoMP SIG test cases	12.2.2	12.3.0
2014-09	RAN#65	R5-144733	0559	-	Update applicability of EUTRA Idle test case 6.2.1.4	12.2.2	12.3.0
2014-09	RAN#65	R5-144794	0560	-	Add IMS APN as the second PDN configuration for IR.92 devices	12.2.2	12.3.0
2014-12	RAN#66	R5-145068	0561	-	Update of test case 8.6.7.2 applicability test condition	12.3.0	12.4.0
2014-12	RAN#66	R5-145182	0562	-	New CA band combination CA_1A-3A - Updates of Table A.4.3.3.3-3	12.3.0	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	0664	-	Update applicability for 10.4.2	12.3.0	12.4.0
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	R5-145371	0667	-	Addition of CA_18A-28A configuration in Table A.4.3.3.3-3	12.3.0	12.4.0
2014-12	RAN#66	R5-145373	0668	-	Addition of CA_1A-28A configuration in Table A.4.3.3.3-3	12.3.0	12.4.0
2014-12	RAN#66	R5-145395	0669	-	Add applicability for new test case Inter-RAT cell reselection from UTRA to E-UTRA / MFBI	12.3.0	12.4.0
2014-12	RAN#66	R5-145398	0670	-	Editorial correction to 6.1.2.20 title	12.3.0	12.4.0
2014-12	RAN#66	R5-145412	0671	-	Update of applicability statements for mandatory Rel-11 capabilities	12.3.0	12.4.0
2014-12	RAN#66	R5-145413	0672	-	Update of References	12.3.0	12.4.0
2014-12	RAN#66	R5-145435	0673	-	Update of eICIC test case 8.3.1.20 title	12.3.0	12.4.0
2014-12	RAN#66	R5-145442	0674	-	Introduction of 1+11 and 8+11 in 36.523-2	12.3.0	12.4.0
2014-12	RAN#66	R5-145575	0675	-	Update applicability for 9.2.1.1.28	12.3.0	12.4.0
2014-12	RAN#66	R5-145582	0676	-	Add applicability for new EMM test case 9.2.1.1.28a	12.3.0	12.4.0
2014-12	RAN#66	R5-145632	0677	-	Editorial corrections to 36.523-2 (CA test cases)	12.3.0	12.4.0
2014-12	RAN#66	R5-145636	0678	-	Correct IR.92 capability	12.3.0	12.4.0
2014-12	RAN#66	R5-145703	0679	-	Addition of applicability of 6.1.1.8 and 6.1.1.9 test cases for RFT119	12.3.0	12.4.0
2014-12	RAN#66	R5-145704	0680	-	Correction to test case title of 6.1.1.7	12.3.0	12.4.0
2014-12	RAN#66	R5-145706	0681	-	Correction to applicability of test case 9.2.1.2.1b and 9.2.3.2.1b	12.3.0	12.4.0
2014-12	RAN#66	R5-145707	0682	-	Correction to applicability of test case 9.2.2.1.3	12.3.0	12.4.0
2014-12	RAN#66	R5-145708	0683	-	Remove Inter-RAT CSG test case 6.3.8 applicability	12.3.0	12.4.0
2014-12	RAN#66	R5-145709	0684	-	Correction to ICS of EUTRA ZUC algorithm Test Cases	12.3.0	12.4.0
2014-12	RAN#66	R5-145710	0685	-	Addition applicability of short DRX test cases	12.3.0	12.4.0
2014-12	RAN#66	R5-145711	0686	-	Update of FGI definitions in TS 36.523-2	12.3.0	12.4.0
2014-12	RAN#66	R5-145712	0687	-	Update of test case 10.5.1.b	12.3.0	12.4.0
2014-12	RAN#66	R5-145744	0688	-	Addition of applicability statements for new rSRVCC test cases	12.3.0	12.4.0
2014-12	RAN#66	R5-145783	0689	-	Update of applicability of ROHC tc 8.2.1.8	12.3.0	12.4.0
2014-12	RAN#66	R5-145788	0690	-	Updates to VoLTE UE capabilities to support XCAP over Internet PDN	12.3.0	12.4.0
2014-12	RAN#66	R5-145798	0691	-	Addition of CA_4A-7A and CA_3A-20A to Annex A4	12.3.0	12.4.0
2015-03	RAN#67	R5-150094	0692	-	Correction to applicability for CA test cases 8.2.4.16.3, 8.2.4.18.3 and 8.2.4.20.3	12.4.0	12.5.0
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

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2015-03	RAN#67	R5-150430	0696	-	Addition of applicability statements for new rSRVCC to GERAN test cases	12.4.0	12.5.0
2015-03	RAN#67	R5-150432	0697	-	Addition of CA_1-41 and CA_26-41 in 36.523-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150481	0698	-	Addition of CA_1A-20A to Annex A.4.3.3 of TS 36.523-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150490	0699	-	Correction to the applicability of EUTRA to UTRA HSUPA test case 8.4.1.5	12.4.0	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	0703	-	Addition of CA_1-7, CA_23 and CA_23-29 to TS 36.523-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150601	0704	-	Remove applicability for test case 8.2.4.22	12.4.0	12.5.0
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	0706	-	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	0719	-	Editorial correction in the applicability of test conditions	12.5.0	12.6.0
2015-06	RAN#68	R5-151239	0716	1	Update to the applicability of Intra/inter-frequencySI acquisition Home eNB test cases	12.5.0	12.6.0
2015-06	RAN#68	R5-151240	0723	-	Update VoLTE definition in A.4.5	12.5.0	12.6.0
2015-06	RAN#68	R5-151255	0724	-	Update of CA Physical Layer Baseline Implementation Capabilities for Rel-12 CA 2UL configurations	12.5.0	12.6.0
2015-06	RAN#68	R5-151394	0732	-	Implementation Capability statement for Half-Duplex operation Type B for UE Cat 0	12.5.0	12.6.0
2015-06	RAN#68	R5-151731	0754	-	Applicability of a new TC 13.5.2 (Smart Congestion Mitigation)	12.5.0	12.6.0
2015-06	RAN#68	R5-151785	0729	1	Update of eICIC test case 8.3.1.21 title	12.5.0	12.6.0
2015-06	RAN#68	R5-151786	0730	1	Update of eICIC test case 8.3.1.28 title	12.5.0	12.6.0
2015-06	RAN#68	R5-151787	0743	1	Applicability correction to test case 13.4.3.41	12.5.0	12.6.0
2015-06	RAN#68	R5-151788	0749	1	Correction to IMS Emergency Call test cases 11.2.8	12.5.0	12.6.0
2015-06	RAN#68	R5-151789	0751	1	Editorial correction to C32 in 36.523-2	12.5.0	12.6.0
2015-06	RAN#68	R5-151790	0752	1	Editorial correction to C216F and C216T in 36.523-2	12.5.0	12.6.0
2015-06	RAN#68	R5-151793	0726	1	Addition of 3DL CA Configurations to 36.523-2	12.5.0	12.6.0
2015-06	RAN#68	R5-151966	0727	1	Addition of frequency for E-UTRA band 32	12.5.0	12.6.0
2015-06	RAN#68	R5-151974	0720	1	Applicability of New Low Cost MTC protocol test cases	12.5.0	12.6.0
2015-06	RAN#68	R5-152057	0745	1	Applicability of New 3GPP/WLAN Offload Test Cases	12.5.0	12.6.0
2015-06	RAN#68	R5-152061	0721	1	Addition of new D2D test case 19.2.1 - Successful Announce Request Procedure/Direct Discovery	12.5.0	12.6.0
2015-06	RAN#68	R5-152064	0740	1	Addition of new applicability for SCM TCs	12.5.0	12.6.0
2015-06	RAN#68	R5-152086	0728	1	Applicability Update of EMM information procedure test case 9.1.5.1	12.5.0	12.6.0
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	0736	1	Addition of applicability for newly added TC “cell reselection / MFBI/UE does not support multiBandInfoList”	12.5.0	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 Delay/Intra-Band Contiguous CA	12.5.0	12.6.0
2015-06	RAN#68	R5-152113	0735	1	Addition of applicability for newly added TC “SRVCC Emergency Call Handover to GERAN”	12.5.0	12.6.0
2015-06	RAN#68	R5-152146	0755	1	Correction to applicability statement of rSRVCC test case 13.4.3.39	12.5.0	12.6.0
2015-09	RAN#69	R5-153232	0761	-	Add applicability of new and update applicability of existing protocol test cases for Category 0 UE	12.6.0	12.7.0
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

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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	0767	-	Correction to information of feature group indicators	12.6.0	12.7.0
2015-09	RAN#69	R5-153438	0768	-	Applicability for new TDD-FDD CA protocol test cases	12.6.0	12.7.0
2015-09	RAN#69	R5-153501	0769	-	Aligning 36.521-2 and 36.523-2 Supported CA Configurations Tables	12.6.0	12.7.0
2015-09	RAN#69	R5-153529	0770	-	Update of FGI definitions in TS 36.523-2	12.6.0	12.7.0
2015-09	RAN#69	R5-153541	0772	-	Updates to applicability of rSRVCC test cases	12.6.0	12.7.0
2015-09	RAN#69	R5-153554	0773	-	Correction to applicability conditions C154F and C154T	12.6.0	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	12.6.0	12.7.0
2015-09	RAN#69	R5-153743	0775	1	Adding ICS for dynamic change of GERAN Release	12.6.0	12.7.0
2015-09	RAN#69	R5-153744	0776	1	Indicating a limited number of releases for TC applicability	12.6.0	12.7.0
2015-09	RAN#69	R5-153745	0778	1	Adding applicability for MTSI SSAC access probability TCs	12.6.0	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	0757	1	Correction of PICS references in test applicabilities	12.6.0	12.7.0
2015-09	RAN#69	R5-153963	0784	-	Addition of applicability of new D2D test cases	12.6.0	12.7.0
2015-09	RAN#69	R5-153974	0785	-	Deletion of TC 8.2.4.24	12.6.0	12.7.0
2015-09	RAN#69	R5-153981	0771	1	Correction to TTI bundling PICS	12.6.0	12.7.0
2015-09	RAN#69	R5-153985	0782	1	Update applicability of test case 8.2.4.17.2 (AP#67.03)	12.6.0	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	0807	-	Addition of ICS for support of 64QAM in UL	12.7.0	12.8.0
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	0809	-	Correction to execution guideline of 7.1.3.11.2	12.7.0	12.8.0
2015-12	RAN#70	R5-155911	0805	1	36.523-2: CA_2A-2A-13A editorial update	12.7.0	12.8.0
2015-12	RAN#70	R5-155934	0790	1	Add UE implementation capability for ProSe	12.7.0	12.8.0
2015-12	RAN#70	R5-155940	3173	1	Update to title of MTC test case 7.1.1.1a in 36.523-2	12.7.0	12.8.0
2015-12	RAN#70	R5-155941	0810	-	Addition of applicability for new Direct Communication test cases	12.7.0	12.8.0
2015-12	RAN#70	R5-155953	0789	1	Applicability of new protocol Dual Connectivity test cases	12.7.0	12.8.0
2015-12	RAN#70	R5-155956	0802	1	Addition of applicability statements for new UEPCOP test case	12.7.0	12.8.0
2015-12	RAN#70	R5-155973	0793	1	Addition of applicability for new SCE-L1 test cases 7.1.7.1.8, 7.1.7.1.9 and 7.1.7.1.10	12.7.0	12.8.0
2015-12	RAN#70	R5-156162	0811	-	Update the applicabity of loopback mode test cases for Multi-PDN	12.7.0	12.8.0
2016-03	RAN#71	R5-160314	0817	-	Update of 1x Pre-registration test cases 8.4.7.x and 13.4.4.x applicability	12.8.0	12.9.0
2016-03	RAN#71	R5-160323	0818	-	Remove applicability of SSAC test cases 13.5.1b and 13.5.2b	12.8.0	12.9.0
2016-03	RAN#71	R5-160402	0825	-	Correction to applicability of eMBMS test case 17.2.4	12.8.0	12.9.0
2016-03	RAN#71	R5-160415	0828	-	CA_20A-67A: Update of CA Physical Layer Baseline Implementation	12.8.0	12.9.0
2016-03	RAN#71	R5-160434	0829	-	Addition of applicability statements for new UEPCOP test cases	12.8.0	12.9.0
2016-03	RAN#71	R5-160513	0831	-	Update of applicabality due to merge of WLAN offload Idle mode test cases 6.5.6 in 6.5.1	12.8.0	12.9.0
2016-03	RAN#71	R5-160518	0832	-	Correction to the Tables A.4.3.3.1-3, A.4.3.3.2-3, A.4.3.3.3-3 and A.4.3.3.3-4	12.8.0	12.9.0
2016-03	RAN#71	R5-160606	0835	-	Add IR.51 IMS Profile for Voice, Video and SMS over Wi-Fi	12.8.0	12.9.0
2016-03	RAN#71	R5-160648	0837	-	Correction to applicability of EMM test case 9.2.1.1.27	12.8.0	12.9.0
2016-03	RAN#71	R5-160662	0838	-	Add ePDG FQDN capability	12.8.0	12.9.0
2016-03	RAN#71	R5-160760	0814	1	Correction to test case 6.2.3.1 in table 4-1	12.8.0	12.9.0
2016-03	RAN#71	R5-160761	0816	1	Update of Inter-RAT MFBI test case 6.2.3.35 applicability	12.8.0	12.9.0
2016-03	RAN#71	R5-160762	0819	1	Addition of Note.7 in Rel-12 SSAC TCs	12.8.0	12.9.0
2016-03	RAN#71	R5-160763	0823	1	Update applicability of test case 8.2.4.20.2	12.8.0	12.9.0
2016-03	RAN#71	R5-160780	0826	1	Update of applicability of MAC test case 7.1.8.1	12.8.0	12.9.0

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2016-03	RAN#71	R5-160908	0815	1	Editorial update of EUTRAN PICS Mnemonics	12.8.0	12.9.0
2016-03	RAN#71	R5-160941	0822	1	Add applicability for test case for Selection of ePDG	12.8.0	12.9.0
2016-03	RAN#71	R5-160960	0827	1	Applicability for new DC protocol test cases	12.8.0	12.9.0
2016-03	RAN#71	R5-160970	0812	1	Addition of applicability for new SCE-L1 test cases	12.8.0	12.9.0
2016-03	RAN#71	R5-160972	0836	1	Update of 36523-2 in regard to ProSe	12.8.0	12.9.0
2016-03	RAN#71	R5-160532	0833	-	Addition of CA Physical Layer Baseline Implementation Capabilities for the new CA configuration	12.9.0	13.0.0
2016-06	RAN#72	R5-162063	0841	-	Clarify the IR.51 applicability	13.0.0	13.1.0
2016-06	RAN#72	R5-162108	0846	-	Addition of CA Physical Layer Baseline Implementation Capabilities for new CA combinations to TS36.523-2	13.0.0	13.1.0
2016-06	RAN#72	R5-162370	0850	-	Applicability updates for Dual Connectivity tests 8.2.2.9.5 and 8.5.1.8.2	13.0.0	13.1.0
2016-06	RAN#72	R5-162408	0852	-	Addition of CA Physical Layer Baseline Implementation Capabilities for CA_1A-3A-7A and CA_3A-7A-8A to 36.523-2	13.0.0	13.1.0
2016-06	RAN#72	R5-162447	0854	-	Update of Rel-13 CA Physical Layer Baseline Implementation	13.0.0	13.1.0
2016-06	RAN#72	R5-162452	0855	-	Applicability of new test cases 7.1.4.26.1 / 8.2.2.9.3 / 8.2.2.9.4	13.0.0	13.1.0
2016-06	RAN#72	R5-162622	0859	-	Update of 36523-2 D2D	13.0.0	13.1.0
2016-06	RAN#72	R5-162652	0861	-	Band 65 introduction to 36.523-2	13.0.0	13.1.0
2016-06	RAN#72	R5-162705	0864	-	Correction to test condition C179	13.0.0	13.1.0
2016-06	RAN#72	R5-162793	0858	1	New CA band combination CA_8A-40A – Updates of Table A.4.3.3.3-3	13.0.0	13.1.0
2016-06	RAN#72	R5-162901	0869	-	Added Applicability of new eDRX test cases	13.0.0	13.1.0
2016-06	RAN#72	R5-162924	0843	1	Editorial correction of EUTRAN PICS Mnemonics	13.0.0	13.1.0
2016-06	RAN#72	R5-162949	0842	1	Add applicability for test case for Tunnel establishment	13.0.0	13.1.0
2016-06	RAN#72	R5-163000	0868	1	Introduction of ICS and applicability for new e-MTC protocol test cases	13.0.0	13.1.0
2016-06	RAN#72	R5-163005	0849	1	Applicability of new eIMTA test cases	13.0.0	13.1.0
2016-06	RAN#72	R5-163034	0853	1	Add applicability for new dual connectivity test cases	13.0.0	13.1.0
2016-06	RAN#72	R5-163061	0870	-	Update to Table 1 Note12	13.0.0	13.1.0
2016-06	RAN#72	R5-163063	0856	1	Applicability for FDD-TDD CA updates	13.0.0	13.1.0
2016-06	RAN#72	R5-163065	0871	-	Addition of test applicability for MFBI enhancement test case 6.1.2.23	13.0.0	13.1.0
2016-06	RAN#72	R5-163066	0872	-	Correction of TC applicability for EMM test case 9.2.1.1.30	13.0.0	13.1.0
2016-06	RAN#72	R5-163090	0844	1	Add B66 information in TS 36.523-2	13.0.0	13.1.0
2016-06	RAN#72	R5-163150	0857	1	Addition of applicability for new SC-PTM test cases	13.0.0	13.1.0
2016-06	RAN#72	R5-163203	0873	-	Introduction of CA Physical Layer Baseline Implementation for CA_1A-8A-11A	13.0.0	13.1.0
2016-09	-	-	-	-	editorial cleanup of table	13.1.0	13.2.0
2016-09	RAN#73	R5-165091	0876	-	Applicability of new protocol test cases for CAT-M1 UE and UE in enhanced coverage	13.1.0	13.2.0
2016-09	RAN#73	R5-165144	0878	-	Corrections to the titles of SC-PTM test cases	13.1.0	13.2.0
2016-09	RAN#73	R5-165157	0879	-	Removal of technical content in 36.523-2 v12.9.0 and substitution with pointer to the next Release	13.1.0	13.2.0
2016-09	RAN#73	R5-165217	0880	-	New CA band combination CA_1A-40A and CA_3A-40A - Updates of Table A.4.3.3.3-3	13.1.0	13.2.0
2016-09	RAN#73	R5-165241	0881	-	Addition of applicability statement for new D2D test case 7.3.8.3	13.1.0	13.2.0
2016-09	RAN#73	R5-165355	0886	-	Correction to applicability of loopback mode test cases for IMS enabled devices	13.1.0	13.2.0
2016-09	RAN#73	R5-165401	0890	-	Updates of CA Physical Layer Baseline Implementation Capabilities for CA_1A-3C in Annex A.4.3.3	13.1.0	13.2.0
2016-09	RAN#73	R5-165404	0892	-	Update of Feature Group Indicators for eMTC	13.1.0	13.2.0
2016-09	RAN#73	R5-165418	0894	-	Additional CA Physical Layer Baseline Implementation Capabilities for new CA combinations to TS36.523-2	13.1.0	13.2.0
2016-09	RAN#73	R5-165471	0897	-	Update of 36523-2 D2D	13.1.0	13.2.0
2016-09	RAN#73	R5-165506	0898	-	Introduction of Band 45 into 36.523-2	13.1.0	13.2.0
2016-09	RAN#73	R5-165759	0907	-	Removing EMM test case 9.2.1.1.30 from TS 36.523-2	13.1.0	13.2.0
2016-09	RAN#73	R5-165872	0911	-	Added Applicability of new eDRX MAC test case	13.1.0	13.2.0
2016-09	RAN#73	R5-165917	0885	1	Correction to the applicability of Rel-11 eMBMS_CA test case 17.4.11.2	13.1.0	13.2.0
2016-09	RAN#73	R5-165920	0913	-	Correction to applicability of Rel-11 SIMTC test cases	13.1.0	13.2.0
2016-09	RAN#73	R5-165924	0874	1	Addition of CA Physical Layer Baseline Implementation Capabilities for new CA combinations to TS36.523-2	13.1.0	13.2.0
2016-09	RAN#73	R5-165925	0884	1	Introduction of CA physical layer capabilities for CA_8A-42A (2DL) and CA_8A-42C (3DL)	13.1.0	13.2.0
2016-09	RAN#73	R5-165926	0887	1	Addition of CA Physical Layer Baseline Implementation Capabilities for CA_1A-3A-28A to 36.523-2.	13.1.0	13.2.0
2016-09	RAN#73	R5-165927	0900	1	Update of Rel-13 CA Physical Layer Baseline Implementation	13.1.0	13.2.0
2016-09	RAN#73	R5-165931	0882	1	Addition of applicability statement for new eDRX test cases 8.1.1.2a and 9.2.4.1.3	13.1.0	13.2.0
2016-09	RAN#73	R5-165971	0902	1	Applicability of new eIMTA MAC CA test cases	13.1.0	13.2.0

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2016-09	RAN#73	R5-165981	0903	1	Cleanup of 36.523-2 Table 4-1a for XML conversion	13.1.0	13.2.0
2016-09	RAN#73	R5-165982	0904	1	Cleanup of 36.523-2 Table 4-1 for XML conversion - general corrections	13.1.0	13.2.0
2016-09	RAN#73	R5-165983	0905	1	Cleanup of 36.523-2 Table 4-1 for XML conversion - XML specific corrections	13.1.0	13.2.0
2016-09	RAN#73	R5-166200	0889	1	Correction to the release version for DC test cases	13.1.0	13.2.0
2016-09	RAN#73	R5-166218	0875	1	Addition of applicability for new SC-PTM test cases	13.1.0	13.2.0
2016-09	RAN#73	R5-166219	0877	1	Addition of applicability for new SC-PTM test cases	13.1.0	13.2.0
2016-09	RAN#73	R5-166220	0915	-	Addition of test applicability for newly introduced NB-IoT TCs	13.1.0	13.2.0
2016-09	RAN#73	R5-166224	0916	-	Addition of applicabilty statements for LWA test cases	13.1.0	13.2.0
2016-09	RAN#73	R5-166254	0914	1	Addition of new PICs for Rel11 Capabilities and Update of applicability to Testase 8.2.2.8	13.1.0	13.2.0
2016-09	RAN#73	R5-166256	0899	1	Correction to the execution guidelines of MO SMS over SGs test cases for IMS enabled devices	13.1.0	13.2.0
2016-09	RAN#73	R5-166258	0912	1	Correction to applicability of test case 9.2.1.1.2a	13.1.0	13.2.0
2016-09	RAN#73	R5-166272	0906	1	Update of MAC legacy UE Cat o test cases to expand applicability to UE Cat M1	13.1.0	13.2.0
2016-09	RAN#73	R5-166328	0910	1	Modification of test applicability for TC6.1.2.23	13.1.0	13.2.0
2016-09	RAN#73	R5-166329	0917	1	Applicabity update of GERAN test cases for IMS enabled UE	13.1.0	13.2.0
2016-12	RAN#74	R5-168186	0920	F	Correction of the applicability of testcase 8.2.4.26 eIMTA / RRC connection reconfiguration / Handover / Success	13.2.0	13.3.0
2016-12	RAN#74	R5-168342	0921	F	Voiding Table 4-1b Note15 and Note16	13.2.0	13.3.0
2016-12	RAN#74	R5-168378	0923	F	Maintenance of 36.523-2 Table 4-1 for XML conversion	13.2.0	13.3.0
2016-12	RAN#74	R5-168386	0925	F	Adapted applicability for UEPCOP test cases 9.2.1.1.7c, 9.2.3.1.1a and 9.2.3.1.5b.	13.2.0	13.3.0
2016-12	RAN#74	R5-168437	0929	F	Voiding Table 4-1b Note12	13.2.0	13.3.0
2016-12	RAN#74	R5-168458	0932	F	Updated applicability conditions for eDRX test cases 9.2.4.1.1, 9.2.4.1.2 and 9.2.4.1.3	13.2.0	13.3.0
2016-12	RAN#74	R5-168609	0935	F	Applicability of legacy LTE protocol test cases for CAT-M1 UE	13.2.0	13.3.0
2016-12	RAN#74	R5-168641	0937	F	Correction of 36.523-2 Table 4-1a to update the use of E-UTRA FDD and E-UTRA TDD in the condition statements.	13.2.0	13.3.0
2016-12	RAN#74	R5-168720	0938	F	Editorial Correction to pics declaration	13.2.0	13.3.0
2016-12	RAN#74	R5-168780	0939	F	Correction to applicability test condition C266	13.2.0	13.3.0
2016-12	RAN#74	R5-168783	0940	F	Correction of test applicability expression for test case 17.4.11.2	13.2.0	13.3.0
2016-12	RAN#74	R5-168919	0948	F	Addition of CA Physical Layer Baseline Implementation for CA_3A-7A-28A, CA_3A-7B, CA_7A-22A, CA_7B, CA_7B-28A, CA_7C-28A and CA_20A-40A	13.2.0	13.3.0
2016-12	RAN#74	R5-168931	0950	F	Additional new PICS items to handle LAA test cases	13.2.0	13.3.0
2016-12	RAN#74	R5-168937	0952	F	Applicability of new protocol Dual Connectivity test cases	13.2.0	13.3.0
2016-12	RAN#74	R5-169002	0953	F	Correction to add Band 66 Intra-band CA applicability to 36.523-2	13.2.0	13.3.0
2016-12	RAN#74	R5-169079	0944	F	Add applicability for new WLAN test cases	13.2.0	13.3.0
2016-12	RAN#74	R5-169083	0922	F	Maintenance of 36.523-2 Table 4-1a for XML conversion	13.2.0	13.3.0
2016-12	RAN#74	R5-169084	0924	F	Maintenance of 36.523-2 Table 4-1 for XML conversion; removal of merged cells	13.2.0	13.3.0
2016-12	RAN#74	R5-169112	0931	F	Applicability of new eMDT2 testcase: Radio Link Failure logging / Logging and reporting / Dropped QCI	13.2.0	13.3.0
2016-12	RAN#74	R5-169114	0933	F	Applicability of eMTC protocol test cases	13.2.0	13.3.0
2016-12	RAN#74	R5-169148	0918	F	Applicabilities for NB-IoT protocol test cases	13.2.0	13.3.0
2016-12	RAN#74	R5-168397	0927	F	Band 70 applicability information to 36.523-2	13.3.0	14.0.0
2016-12	RAN#74	R5-168626	0936	F	CA_20A-28A: Update of CA Physical Layer Baseline Implementation	13.3.0	14.0.0
2016-12	RAN#74	R5-168841	0943	F	CA_70C applicability information to 36.523-2	13.3.0	14.0.0
2016-12	RAN#74	R5-169050	0954	F	CA_3A-20A-32A: Update of CA Physical Layer Baseline Implementation	13.3.0	14.0.0
2017-03	RAN#75	R5-170523	0955	-	Updates of CA Physical Layer Baseline Implementation Capabilities for R14 CA configurations	14.0.0	14.1.0
2017-03	RAN#75	R5-170804	0961	-	Editorial correction of boolean expressions in table 4-1a.	14.0.0	14.1.0
2017-03	RAN#75	R5-170987	0973	-	Applicability of V2V SIG test cases	14.0.0	14.1.0
2017-03	RAN#75	R5-171351	0981	-	CA_29A-66A, CA_29A-66A-66A, CA_29A-66C, CA_46A-66A addition to 36.523-2	14.0.0	14.1.0
2017-03	RAN#75	R5-171378	0983	-	Addition of applicability statement for LWIP test case 8.2.5.6	14.0.0	14.1.0
2017-03	RAN#75	R5-171380	0985	-	Update applicability of TC 19.1.8	14.0.0	14.1.0
2017-03	RAN#75	R5-171421	0986	-	Update of NB-IoT testcase applicabilities	14.0.0	14.1.0
2017-03	RAN#75	R5-171456	0960	1	Correction to add pc_LAP into conditions C194, C197 and C261 for test cases 8.1.1.7, 9.2.3.1.8b and 9.2.1.1.27a.	14.0.0	14.1.0
2017-03	RAN#75	R5-171457	0974	1	Correction to Inter-RAT absolute priority based reselection test cases applicability	14.0.0	14.1.0
2017-03	RAN#75	R5-171463	0962	1	Introduction of CA_3A-11A to section A4.3	14.0.0	14.1.0
2017-03	RAN#75	R5-171464	0963	1	Introduction of CA_8A-28A to section A4.3	14.0.0	14.1.0
2017-03	RAN#75	R5-171465	0964	1	Introduction of CA_11A-28A to section A4.3	14.0.0	14.1.0

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2017-03	RAN#75	R5-171466	0965	1	Introduction of CA_1A-8A-28A to section A4.3	14.0.0	14.1.0
2017-03	RAN#75	R5-171467	0966	1	Introduction of CA_3A-8A-28A to section A4.3	14.0.0	14.1.0
2017-03	RAN#75	R5-171468	0967	1	Introduction of CA_3A-28A-41A to section A4.3	14.0.0	14.1.0
2017-03	RAN#75	R5-171472	0956	1	Update TS 36.523-2 with Addition of LTE Band 48	14.0.0	14.1.0
2017-03	RAN#75	R5-171521	0957	1	Maintenance of 36.523-2 Table 4-1a for XML conversion	14.0.0	14.1.0
2017-03	RAN#75	R5-171569	0969	1	Correction to applicability conditions for UL CA	14.0.0	14.1.0
2017-03	RAN#75	R5-171575	0989	-	New PICS for Daylight Saving Time	14.0.0	14.1.0
2017-03	RAN#75	R5-171579	0978	1	Addition of new PICS for Rel-12 capability with impact on applicability of TC 6.1.1.7 and 6.1.1.7a	14.0.0	14.1.0
2017-03	RAN#75	R5-171584	0991	1	Applicability of new LAA Test Cases	14.0.0	14.1.0
2017-03	RAN#75	R5-171588	0982	1	Applicability for new UE Power Class 2 TC	14.0.0	14.1.0
2017-03	RAN#75	R5-171591	0988	1	Applicability of new eMDT2 testcase	14.0.0	14.1.0
2017-03	RAN#75	R5-171954	0990	1	Correction to applicability of EMM TC 9.3.1.16	14.0.0	14.1.0
2017-03	RAN#75	R5-171990	0987	2	Addition of CA configurations for new LAA Band	14.0.0	14.1.0
2017-03	RAN#75	R5-171993	0977	1	Applicability of protocol test cases for eMTC	14.0.0	14.1.0
2017-06	RAN#76	R5-172051	0992	-	Editorial update to the title of test case 19.1.8	14.1.0	14.2.0
2017-06	RAN#76	R5-172073	0994	-	Removing TDD Applicability - Direct Communication Security Aspects Test Cases	14.1.0	14.2.0
2017-06	RAN#76	R5-172155	0996	-	Removing TDD Applicability - Direct Communication Test Cases	14.1.0	14.2.0
2017-06	RAN#76	R5-172168	0998	-	Correction to PC2 PICS item	14.1.0	14.2.0
2017-06	RAN#76	R5-172379	1004	-	Addition of new CA configurations containing Band 66 to 36.523-2	14.1.0	14.2.0
2017-06	RAN#76	R5-172505	1008	-	Correction to test case 7.1.7.2.3 title	14.1.0	14.2.0
2017-06	RAN#76	R5-172525	1009	-	Introduction of CA_1A-11A-28A to Annex A4.3.3	14.1.0	14.2.0
2017-06	RAN#76	R5-172529	1010	-	Introduction of CA_8A-11A-28A to Annex A4.3.3	14.1.0	14.2.0
2017-06	RAN#76	R5-172698	1015	-	Addition of new CA configuration CA_3A-69A to 36.523-2	14.1.0	14.2.0
2017-06	RAN#76	R5-172700	1016	-	Addition of new CA configuration CA_2A-2A-12A to 36.523-2	14.1.0	14.2.0
2017-06	RAN#76	R5-172888	1021	1	Correction to applicability conditions of legacy eICIC test cases for CAT M1 UEs	14.1.0	14.2.0
2017-06	RAN#76	R5-172894	1025	-	Applicability of protocol test cases for eMTC	14.1.0	14.2.0
2017-06	RAN#76	R5-172922	1020	1	Correction to applicability conditions of EMM test cases 9.2.1.1.18 and 9.2.3.2.1c	14.1.0	14.2.0
2017-06	RAN#76	R5-172923	1017	1	Adding missing UE categories to Annex A.4.3.2	14.1.0	14.2.0
2017-06	RAN#76	R5-172940	1006	1	Updates of CA Physical Layer Baseline Implementation Capabilities for Rel13 CA configurations	14.1.0	14.2.0
2017-06	RAN#76	R5-172942	0999	1	New CA band combination CA_3C-8A - Updates of Table A.4.3.3.3-3	14.1.0	14.2.0
2017-06	RAN#76	R5-172943	1003	1	Addition of CA_2A-66A, CA_5A-66A and CA_13A-66A to TS 36.523-2	14.1.0	14.2.0
2017-06	RAN#76	R5-172952	1000	1	Maintenance of 36.523-2 for XML conversion	14.1.0	14.2.0
2017-06	RAN#76	R5-172953	1001	1	Corrected use of ( ) in Table 4-1a	14.1.0	14.2.0
2017-06	RAN#76	R5-172960	1014	1	Change title of test cases 8.2.4.25.6 and 8.2.4.25.7	14.1.0	14.2.0
2017-06	RAN#76	R5-172998	1007	1	Update of NB-IoT testcase applicabilities	14.1.0	14.2.0
2017-06	RAN#76	R5-173014	0997	1	Correction to applicability condition C179a	14.1.0	14.2.0
2017-06	RAN#76	R5-173016	1002	1	Applicability of new TC for reselection using Pcompensation	14.1.0	14.2.0
2017-06	RAN#76	R5-173018	1005	1	Corrections to PICS naming in TS 36.523-2	14.1.0	14.2.0
2017-09	RAN#77	R5-173691	1031	-	Addition of CA_29A-70A, CA_29A-46A-66A, CA_46A-66A-66A, CA_46A-66C, CA_46A-70A to 36.523-2	14.2.0	14.3.0
2017-09	RAN#77	R5-173700	1032	-	New CA band combination CA_1A-3C-8A - Updates of Table A.4.3.3.3-4	14.2.0	14.3.0
2017-09	RAN#77	R5-173728	1033	-	Adding applicability for new ProSe Rel-13 TCs 36523-2	14.2.0	14.3.0
2017-09	RAN#77	R5-173778	1036	-	Addition of CA_2A-66A to TS 36.523-2	14.2.0	14.3.0
2017-09	RAN#77	R5-173813	1037	-	Correction to applicability of legacy MAC test cases for CAT-M1 Ues	14.2.0	14.3.0
2017-09	RAN#77	R5-173815	1038	-	Correction to applicability condition C01a	14.2.0	14.3.0
2017-09	RAN#77	R5-173970	1044	-	Introduction of CA_1A-3A-11A to Annex	14.2.0	14.3.0
2017-09	RAN#77	R5-173979	1045	-	Introduction of CA configuration CA_2A-7A	14.2.0	14.3.0
2017-09	RAN#77	R5-173980	1046	-	Introduction of CA_3A-8A-11A to Annex	14.2.0	14.3.0
2017-09	RAN#77	R5-173988	1047	-	Introduction of CA_3A-11A-28A to Annex	14.2.0	14.3.0
2017-09	RAN#77	R5-174045	1048	-	Merging “MTSI over WLAN” test cases 20.1 and 20.2	14.2.0	14.3.0
2017-09	RAN#77	R5-174068	1050	-	Addition of applicability for new V2X Sidelink test case 24.1.14 and 24.1.15	14.2.0	14.3.0
2017-09	RAN#77	R5-174070	1051	-	Addition of applicability for new V2V Sidelink test case 24.1.9	14.2.0	14.3.0
2017-09	RAN#77	R5-174079	1052	-	Update of NB-IoT testcase applicabilities	14.2.0	14.3.0
2017-09	RAN#77	R5-174145	1054	-	Addition of new CA configurations to 36.523-2	14.2.0	14.3.0
2017-09	RAN#77	R5-174175	1055	-	Introduction of CA_3A-32A to Table A.4.3.3.3-3	14.2.0	14.3.0
2017-09	RAN#77	R5-174214	1057	-	Add applicability for incmon test cases	14.2.0	14.3.0
2017-09	RAN#77	R5-174228	1058	-	Addition of applicability for new V2X Sidelink test case 24.1.6	14.2.0	14.3.0
2017-09	RAN#77	R5-174254	1059	-	Addition of applicability statements for new LWA test case 8.5.2.7	14.2.0	14.3.0

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2017-09	RAN#77	R5-174286	1060	-	Correction of 'Release other RAT' information for 36.523-2 6.2.3.3a and 6.2.3.4a	14.2.0	14.3.0
2017-09	RAN#77	R5-174391	1064	-	Removal of Rel-12 DC test cases 8.2.2.9.4	14.2.0	14.3.0
2017-09	RAN#77	R5-174423	1067	-	Corrections to CA Physical Layer Baseline Implementation Capabilities	14.2.0	14.3.0
2017-09	RAN#77	R5-174439	1071	-	Correction to applicability of Rel-11 eMDT test case 8.6.5.4	14.2.0	14.3.0
2017-09	RAN#77	R5-174490	1027	1	Clarify applicability for SCM test cases for UE category M1	14.2.0	14.3.0
2017-09	RAN#77	R5-174492	1072	-	Correction to the applicability of MAC long-DRX test cases for CAT-M1 Ues	14.2.0	14.3.0
2017-09	RAN#77	R5-174517	1073	-	Addition of missing PICS parameters	14.2.0	14.3.0
2017-09	RAN#77	R5-174518	1039	1	Removal of tdd-FDD-CA-PCellDuplex-r12 dependency from Test Case 7.1.3.11.4 and 7.1.3.11.5 Applicability	14.2.0	14.3.0
2017-09	RAN#77	R5-174520	1042	1	Correction to HPUE applicability condition C281	14.2.0	14.3.0
2017-09	RAN#77	R5-174521	1049	1	Change applicability of test cases 13.5.3a, 13.5.4,13.5.5 and 13.5.6	14.2.0	14.3.0
2017-09	RAN#77	R5-174522	1069	1	Correction to applicability of eDRX test case 7.1.6.5	14.2.0	14.3.0
2017-09	RAN#77	R5-174523	1074	-	Clarification of Applicability of TC 11.2.10	14.2.0	14.3.0
2017-09	RAN#77	R5-174540	1056	1	Add applicability for new eCall over IMS test cases	14.2.0	14.3.0
2017-09	RAN#77	R5-174635	1043	1	Addition of V2V applicability PICS for SIG test cases	14.2.0	14.3.0
2017-09	RAN#77	R5-174652	1035	1	Applicability of eMTC protocol test cases	14.2.0	14.3.0
2017-09	RAN#77	R5-174653	1070	1	Alignment of PICS naming in TS 36.523-2	14.2.0	14.3.0
2017-09	RAN#77	R5-174655	1077	1	Addition of new applicability for TC 7.1.12.1 " DataInactivityTimer expiry	14.2.0	14.3.0
2017-09	RAN#77	R5-174663	1062	1	Addition of applicability for new V2X test cases 24.1.2 and 24.1.4	14.2.0	14.3.0
2017-09	RAN#77	R5-174665	1078	-	Addition of applicability for new V2X test cases 24.1.3	14.2.0	14.3.0
2017-09	RAN#77	R5-174697	1076	1	Applicability of new TBS test cases	14.2.0	14.3.0
2017-09	RAN#77	R5-175226	1080	2	Adding note to test case applicability for LTE test cases with REJECT	14.2.0	14.3.0
2017-12	RAN#78	R5-176049	1081	-	Removing note from test case applicability for LTE test cases with REJECT	14.3.0	14.4.0
2017-12	RAN#78	R5-176121	1083	-	Removal of applicability of MDT test case 8.6.5.4	14.3.0	14.4.0
2017-12	RAN#78	R5-176141	1084	-	Merge of NB-IoT RLF test cases 22.4.19 and 22.4.22 - Part2	14.3.0	14.4.0
2017-12	RAN#78	R5-176142	1085	-	Update to some of the NB-IoT PICS	14.3.0	14.4.0
2017-12	RAN#78	R5-176143	1086	-	Correction to applicability of NB-IoT test case 22.4.14	14.3.0	14.4.0
2017-12	RAN#78	R5-176304	1089	-	Added FDD Band 69 to signalling ICS	14.3.0	14.4.0
2017-12	RAN#78	R5-176312	1090	-	Addition of applicability for new LTE_VoLTE_ViLTE_enh-UEConTest testcases	14.3.0	14.4.0
2017-12	RAN#78	R5-176366	1091	-	Adding applicability for new ProSe Rel-13 TCs	14.3.0	14.4.0
2017-12	RAN#78	R5-176373	1092	-	Clarify the capability for S1-U data transfer	14.3.0	14.4.0
2017-12	RAN#78	R5-176390	1094	-	New CA band combination CA_1A-3A-40A, CA_1A-8A-40A, CA_3A-8A-40A - Updates of Table A.4.3.3.3-4	14.3.0	14.4.0
2017-12	RAN#78	R5-176436	1096	-	Add implementation capabilitys of 3DL/1UL CA_2A-7A-7A and CA_4A-7A-7A	14.3.0	14.4.0
2017-12	RAN#78	R5-176467	1098	-	Applicability update of EPS test case 10.6.1	14.3.0	14.4.0
2017-12	RAN#78	R5-176471	1099	-	Update of applicability for RRC test case 8.1.3.5 (not applicable for Cat M1)	14.3.0	14.4.0
2017-12	RAN#78	R5-176472	1100	-	Update of applicability for RRC test case 8.1.3.5a (not applicable for Cat M1)	14.3.0	14.4.0
2017-12	RAN#78	R5-176482	1101	-	Correction to applicability for 3 and 4 layer transport block size selection test cases	14.3.0	14.4.0
2017-12	RAN#78	R5-176560	1105	-	Correction to applicability of NB-IoT ESM test case 22.6.1	14.3.0	14.4.0
2017-12	RAN#78	R5-176675	1109	-	Correction to typo in test case 7.1.6.3 and 7.1.6.5	14.3.0	14.4.0
2017-12	RAN#78	R5-176753	1112	-	Introduction of applicabilities for new eDECOR test cases	14.3.0	14.4.0
2017-12	RAN#78	R5-176906	1107	1	Corrected test condition with wrong ICS matching	14.3.0	14.4.0
2017-12	RAN#78	R5-176907	1110	1	Correction to the duplicate conditions in Table 4-1.	14.3.0	14.4.0
2017-12	RAN#78	R5-176908	1117	1	Correction to applicability of legacy MAC test case 7.1.4.12 for CAT-M1 UEs	14.3.0	14.4.0
2017-12	RAN#78	R5-176911	1102	1	Addition of test applicability of b5C_PUCCH TC7.1.4.29.1 and TC7.1.4.29.2	14.3.0	14.4.0
2017-12	RAN#78	R5-176980	1108	1	Addition of applicability and tests conditions for V2X test cases	14.3.0	14.4.0
2017-12	RAN#78	R5-176986	1103	1	Applicability statement for HST sig TCs	14.3.0	14.4.0
2017-12	RAN#78	R5-177071	1082	1	Add applicability for eCall over IMS test cases	14.3.0	14.4.0
2017-12	RAN#78	R5-177081	1093	1	Add CP CIoT capability for RRC connection re-establishment	14.3.0	14.4.0
2017-12	RAN#78	R5-177083	1097	1	Addition of test applicability of 8.2.2.5.4	14.3.0	14.4.0
2017-12	RAN#78	R5-176295	1088	-	Added FDD Band 71 to signalling ICS	14.4.0	15.0.0
2018-03	RAN#79	R5-180369	1122	-	New CA band combination CA_1A-3A-8A-40A - Updates of Table A.4.3.3.3-5	15.0.0	15.1.0
2018-03	RAN#79	R5-180456	1124	-	Addition of applicability and tests conditions for V2X test cases	15.0.0	15.1.0
2018-03	RAN#79	R5-180553	1128	-	Correction to applicability of 22.6.x series NB-IoT test cases	15.0.0	15.1.0
2018-03	RAN#79	R5-180713	1134	-	Addition of new PICS for CAT1bis UL and DL Category	15.0.0	15.1.0

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2018-03	RAN#79	R5-180718	1135	-	Addition of applicability of new Enhanced LAA test cases 7.1.4.30 and 7.1.4.31	15.0.0	15.1.0
2018-03	RAN#79	R5-180752	1137	-	Addition of new R14 CA configurations to 36.523-2	15.0.0	15.1.0
2018-03	RAN#79	R5-180758	1138	-	Addition of new R15 CA configurations to 36.523-2	15.0.0	15.1.0
2018-03	RAN#79	R5-180781	1139	-	Addition of CA_29A-66A-66A-70A, CA_29A-66A-66A-70C, CA_29A-66A-70A, CA_29A-66A-70C, CA_29A-66C-70A, CA_29A-66C-70C, CA_29A-70C, CA_66A-66A-70A, CA_66A-66A-70C, CA_66A-70A, CA_66A-70C, CA_66C-70A, CA_66C-70C to 36.523-2	15.0.0	15.1.0
2018-03	RAN#79	R5-180920	1142	-	Added FDD Band 74 to signalling ICS	15.0.0	15.1.0
2018-03	RAN#79	R5-181069	1145	-	Correction to applicability of SMS-over-SGs test cases 11.1.5 and 11.1.6 in case of CAT-M1 UEs	15.0.0	15.1.0
2018-03	RAN#79	R5-181159	1149	1	Addition of DL Category 20 to Table A.4.3.2-2	15.0.0	15.1.0
2018-03	RAN#79	R5-181160	1151	1	Removing the applicability of test case 22.4.17	15.0.0	15.1.0
2018-03	RAN#79	R5-181162	1152	-	Correction to applicability of CA test cases when executed using LAA band combination	15.0.0	15.1.0
2018-03	RAN#79	R5-181163	1120	1	Addition of FDD Band 72 to signalling ICS	15.0.0	15.1.0
2018-03	RAN#79	R5-181164	1121	1	Addition of FDD Band 68 to signalling ICS	15.0.0	15.1.0
2018-03	RAN#79	R5-181168	1153	-	Addition of applicability statements for LWA Test Case 8.2.5.4 & LWIP Test Case 8.2.5.5.	15.0.0	15.1.0
2018-03	RAN#79	R5-181200	1136	1	Addition of applicability for eCall over IMS test cases	15.0.0	15.1.0
2018-03	RAN#79	R5-181229	1148	1	Introduction of CA_3A-7A-20A-32A 4DL/1UL to Annex A	15.0.0	15.1.0
2018-03	RAN#79	R5-181230	1127	1	Update the wrong TC number in Table 4-1	15.0.0	15.1.0
2018-03	RAN#79	R5-181274	1130	1	Update for ProSe Rel-13 TCs applicability	15.0.0	15.1.0
2018-03	RAN#79	R5-181280	1125	1	Addition of applicability for new Enhancements of NB-IoT Test testcases	15.0.0	15.1.0
2018-03	RAN#79	R5-181282	1144	1	Applicabilities for new feMTC TC	15.0.0	15.1.0
2018-03	RAN#79	R5-181292	1154	-	Applicability for new Layer 2 Latency Reduction	15.0.0	15.1.0
2018-03	RAN#79	R5-181322	1129	1	Addition of applicability for new V2X Sidelink test case 24.1.19	15.0.0	15.1.0
2018-03	RAN#79	R5-181326	1118	1	Add applicability for radio link failure test cases	15.0.0	15.1.0
2018-06	RAN#80	R5-182345	1157	-	Correction to ICS for Latency Reduction	15.1.0	15.2.0
2018-06	RAN#80	R5-182514	1159	-	Correction of Release other RAT information for 6.2.3.5a, 6.2.4.1, 6.2.4.3, 6.2.4.4, 6.2.4.5, 6.2.4.6 and 6.2.4.7	15.1.0	15.2.0
2018-06	RAN#80	R5-183277	1166	1	UL CA capability reporting for different CA band combination types	15.1.0	15.2.0
2018-06	RAN#80	R5-182646	1169	-	Change the title of DC testcase 8.2.4.25.1 and 8.2.4.25.2	15.1.0	15.2.0
2018-06	RAN#80	R5-182659	1170	-	Addition of test applicability of multiple SRS switching test cases	15.1.0	15.2.0
2018-06	RAN#80	R5-182759	1172	-	Addition of new R15 CA configurations to 36.523-2	15.1.0	15.2.0
2018-06	RAN#80	R5-182822	1174	-	Update to applicability condition of test case 11.2.3 to include CSG PICS	15.1.0	15.2.0
2018-06	RAN#80	R5-182841	1178	-	Removal of Enhanced LAA test case 7.1.4.30 applicability	15.1.0	15.2.0
2018-06	RAN#80	R5-183027	1182	-	Addition of CA_66A-66A-70C-71A, CA_66A-66A-70A-71A, CA_66A-70C-71A, CA_66A-70A-71A, CA_66A-66A-71A, CA_70A-71A, CA_66A-71A, CA_66C-70C-71A, CA_66C-70A-71A, CA_70C-71A, CA_66C-71A to 36.523-2	15.1.0	15.2.0
2018-06	RAN#80	R5-183070	1158	1	Addition of DL Category 21 to Table A.4.3.2-2	15.1.0	15.2.0
2018-06	RAN#80	R5-183071	1160	1	Correction of Release other RAT information for 6.2.3.35	15.1.0	15.2.0
2018-06	RAN#80	R5-183072	1161	1	Correction of applicability condition C133, C190, C229 and C230	15.1.0	15.2.0
2018-06	RAN#80	R5-183073	1164	1	Update of UE DL Categories and UL Categories	15.1.0	15.2.0
2018-06	RAN#80	R5-183074	1180	1	Corrections to table “Table 4-1a” and “Table A.4.4-1” Applicability of test case Conditions and additional information from 3GPP TS 36.523-2	15.1.0	15.2.0
2018-06	RAN#80	R5-183075	1183	-	Updating execution guidelines for some NAS reject scenarios to remove Note 20	15.1.0	15.2.0
2018-06	RAN#80	R5-183077	1171	1	New CA band combination CA_1A-41A-42A, CA_1A-41C-42A, CA_1A-41A-42C and CA_1A-41C-42C updates in Table A.4.3.3.3-4.	15.1.0	15.2.0
2018-06	RAN#80	R5-183175	1173	1	Test applicability statement for eLAA	15.1.0	15.2.0
2018-06	RAN#80	R5-183178	1162	1	Addition of applicability and tests conditions for LTE_VoLTE_ViLTE_enh test cases	15.1.0	15.2.0
2018-06	RAN#80	R5-183191	1165	1	Addition of applicability and tests conditions for V2X test cases	15.1.0	15.2.0
2018-06	RAN#80	R5-183192	1167	1	Addition of test applicability for new V2X TC24.2.1,TC24.2.2 and TC24.2.3	15.1.0	15.2.0
2018-06	RAN#80	R5-183200	1168	1	Addition of applicability and tests conditions for Enhancements of NB-IoT test cases	15.1.0	15.2.0
2018-06	RAN#80	R5-183206	1176	1	Update to applicability condition of Intra-freq measurement report test cases for CAT-M1 UEs	15.1.0	15.2.0
2018-06	RAN#80	R5-183248	1156	1	New capability for IMS UE behaviour when IMS VoPS is set to 0	15.1.0	15.2.0
2018-09	RAN#81	R5-184060	1185	-	Adding SMS over SGs configuration to applicabilities	15.2.0	15.3.0

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2018-09	RAN#81	R5-184146	1188	-	Addition of Applicability statement for WLAN/3GPP Radio Level Integration and Interworking Enhancement test case: ”LWA / T351 Expiry”	15.2.0	15.3.0
2018-09	RAN#81	R5-184217	1189	-	Update of applicability and tests conditions for LTE_VoLTE_ViLTE_enh test cases	15.2.0	15.3.0
2018-09	RAN#81	R5-184266	1190	-	Correction of test case title of 8.2.2.5a.2	15.2.0	15.3.0
2018-09	RAN#81	R5-184287	1191	-	Addition of multiple CA configurations to capability tables in TS 36.523-2	15.2.0	15.3.0
2018-09	RAN#81	R5-184399	1192	-	New CA band combination CA_8A-27A - Updates of Table A.4.3.3.3-3	15.2.0	15.3.0
2018-09	RAN#81	R5-184512	1193	-	Correction to applicability of TC 7.1.7.1.6a	15.2.0	15.3.0
2018-09	RAN#81	R5-184513	1194	-	Correction to applicability of DL 256QAM TCs	15.2.0	15.3.0
2018-09	RAN#81	R5-184514	1195	-	Editorial correction of referred table number	15.2.0	15.3.0
2018-09	RAN#81	R5-184536	1196	-	Correction to testcases 9.2.1.2.1c and 9.2.1.2.1d applicability conditions for CAT-M1 UEs	15.2.0	15.3.0
2018-09	RAN#81	R5-184633	1200	-	Addition of new applicability of emergency call via CS domain TC for IMS capable UE	15.2.0	15.3.0
2018-09	RAN#81	R5-184637	1201	-	Addition of test applicability for new V2X TC24.2.4 and Specific ICS for V2X TC24.2.1 and TC24.2.2	15.2.0	15.3.0
2018-09	RAN#81	R5-184730	1202	-	Correction to Inter-RAT absolute priority based reselection test cases	15.2.0	15.3.0
2018-09	RAN#81	R5-184731	1203	-	Update to applicability condition of test case 11.2.3 to include CSG PICS	15.2.0	15.3.0
2018-09	RAN#81	R5-184780	1207	-	Update of applicability and tests conditions for NB_IOT enhancement test cases	15.2.0	15.3.0
2018-09	RAN#81	R5-184814	1208	-	Addition of test applicability for new V2X TC 24.1.13	15.2.0	15.3.0
2018-09	RAN#81	R5-184849	1210	-	Correction of condition for Measurement configuration and reporting	15.2.0	15.3.0
2018-09	RAN#81	R5-185022	1212	-	Correction to NB-IoT test case 22.4.20a execution guideline	15.2.0	15.3.0
2018-09	RAN#81	R5-185024	1198	1	Addition of new R15 CA configurations to 36.523-2	15.2.0	15.3.0
2018-09	RAN#81	R5-185121	1213	-	Addition of applicability and tests conditions for new Enhancements NB-IoT TC 22.3.2.6	15.2.0	15.3.0
2018-09	RAN#81	R5-185137	1204	1	Update to applicability condition of Intra-frequency measurement reporting test cases for CAT-M1 UEs	15.2.0	15.3.0
2018-09	RAN#81	R5-185138	1206	1	Removal of 1xPre-Registation and 1xCSFB test cases applicability	15.2.0	15.3.0
2018-09	RAN#81	R5-185140	1187	1	New CA band combination CA_1A-3A-7A-20A - Update of table A.4.3.3.3-5	15.2.0	15.3.0

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