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User Equipment (UE) conformance specification Part 2: Applicability of protocol test cases (Release 16)





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Foreword

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

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

The present document is part 2 of a multi-part deliverable covering the 5G System (5GS) User Equipment (UE) protocol conformance specification, as identified below:

- 3GPP TS 38.523-1 [2]: "5GS; User Equipment (UE) conformance specification; Part 1: Protocol".
- 3GPP TS 38.523-2: "5GS; User Equipment (UE) conformance specification; Part 2: Applicability of protocol test cases" (the present document).
- 3GPP TS 38.523-3 [3]: "5GS; User Equipment (UE) conformance specification; Part 3: Protocol Test Suites".

1 Scope

The present document provides the applicability of protocol test cases proforma for 5G New Radio (NR) User Equipment (UE), in compliance with the relevant requirements.

The present document specifies the recommended applicability statement for the test cases included in 3GPP TS 38.523-1 [2] and 3GPP TS 38.523-3 [3]. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in 3GPP TS 38.509 [5] and 3GPP TS 36.509 [7] and the common test environments are included in 3GPP TS 38.508-1 [4] and 3GPP TS 36.508 [6].

The present document is valid for UE implemented according to 3GPP Releases starting from Release 15 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*.
- 3GPP TR 21.905: "Vocabulary for 3GPP Specifications". [1] [2] 3GPP TS 38.523-1: "5GS; User Equipment (UE) conformance specification; Part 1: Protocol". 3GPP TS 38.523-3: "5GS; User Equipment (UE) conformance specification; Part 3: Protocol Test [3] Suites". [4] 3GPP TS 38.508-1: "5GS; User Equipment (UE) conformance specification; Part 1: Common test environment". 3GPP TS 38.508-2: "5GS; User Equipment (UE) conformance specification; Part 2: Common [5] Implementation Conformance Statement (ICS) proforma". [6] 3GPP TS 38.509: "5GS; Special conformance testing functions for User Equipment (UE)". 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal [7] Terrestrial Radio Access (E-UTRAN); Common Test Environments for User Equipment (UE) Conformance Testing". [8] 3GPP TS 36.509: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal
- Terrestrial Radio Access Network (E-UTRAN); Special conformance testing functions for User Equipment (UE)".

 [9] 3GPP TS 34.229-2: "Internet Protocol (IP) multimedia call control protocol based on Session
- [9] 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".
- [10] 3GPP TS 36.523-2: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [5] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [5].

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

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

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

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

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

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

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

3.2 Symbols

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

<symbol> <Explanation>

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

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

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

4.0 Introduction

The applicability of each individual test is identified in subclause 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 expressions that are based on parameters (ICS). The parameters (ICS) included in TS 38.508-2 [5] are used in the test case applicability condition without reference. Parameters (ICS) specified in 3GPP TS 36.523-2 [10] and 3GPP TS 34.229-2 [9] shall be referred with proper reference.

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 subclause 4.1 have the following meaning:

Clause

The clause column indicates the clause number in TS 38.523-1 [2] that contains the test body.

Title

The title column describes the name of the test and contains the clause title of the clause in TS 38.523-1 [2] 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'.

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 a 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 subclause 4.2.

Applicability - Comments

This column contains a verbal description of the condition.

Additional Information - Specific ICS

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

Additional Information - Specific IXIT

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

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 at the end of the same Table.

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 5GS) 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).

4.1 Protocol conformance test cases applicability

Table 4.1-1a: Applicability of Protocol conformance Idle mode test cases, ref. TS 38.523-1 [2]

Clause	TC Title	Release	e Applicability		
			Condition	Comment	
6.1	In a pure NG-RAN environment				
6.1.1	NG-RAN Only PLMN Selection				
6.1.1.1	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode	Rel-15	C21	UEs supporting 5G Core	
6.1.1.2	PLMN selection of "Other PLMN/access technology combinations" / Automatic mode	Rel-15	C21	UEs supporting 5G Core	
6.1.1.3	Cell reselection of ePLMN in manual mode	Rel-15	C21	UEs supporting 5G Core	
6.1.1.4	PLMN selection in shared network environment / Automatic mode	Rel-15	C21	UEs supporting 5G Core	
6.1.1.5	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode / User reselection.	Rel-15	C36	UEs supporting 5G Core and user initiated PLMN reselection in automatic mode on NR	
6.1.1.6	PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer	Rel-15	C34	UEs supporting 5G Core and MinimumPeriodicSearchTimer	
6.1.1.7	PLMN selection of RPLMN or (E)HPLMN; Automatic mode	Rel-15	C21	UEs supporting 5G Core	
6.1.1.8	PLMN selection of RPLMN or (E)HPLMN; Manual mode	Rel-15	C21	UEs supporting 5G Core	
6.1.2	NG-RAN Only Cell Selection				
6.1.2.1	Cell Selection/Qrxlevmin & Cell Reselection (Intra NR)	Rel-15	C21	UEs supporting 5G Core	
6.1.2.2	QqualminCell Selection/Qqualmin/Intra NR / Serving cell becomes non-suitable (Srxlev > 0, Squal < 0)	Rel-15	C21	UEs supporting 5G Core	
6.1.2.3	Cell selection / Intra NR/ Serving cell becomes non-suitable (S<0 , MIB Indicated barred)	Rel-15	C21	UEs supporting 5G Core	
6.1.2.4	Cell reselection for interband operation	Rel-15	C37	UEs supporting 5G Core and more than 1 FDD or TDD NR band	
6.1.2.5	Cell reselection for interband operation using Pcompensation / Between FDD and TDD	Rel-15	C38	UEs supporting 5G Core and NR FDD and NR TDD	
6.1.2.8	Cell reselection / Equivalent PLMN / Single Frequency operation	Rel-15	C21	UEs supporting 5G Core	
6.1.2.9	Cell reselection using Qhyst, Qoffset and Treselection	Rel-15	C21	UEs supporting 5G Core	
6.1.2.11	Area Specific SIBs using systemInformationAreaID	Rel-15	C21	UEs supporting 5G Core	
6.1.2.12	Cell reselection using cell status and cell reservations / cellReservedForOtherUse	Rel-15	C21	UEs supporting 5G Core.	
6.1.2.13	Cell reselection using cell status and cell reservations / Access Identity 1, 2 or 12 to 14 - cellReservedForOperatorUse	Rel-15	C21	UEs supporting 5G Core	
6.1.2.14	Cell reselection using cell status and cell reservations / Access Identity 11 or 15 - cellReservedForOperatorUse	Rel-15	C21	UEs supporting 5G Core.	
6.1.2.15	Cell reselection in shared network environment	Rel-15	C21	UEs supporting 5G Core	
6.1.2.16	Inter-frequency cell reselection (equal priority)	Rel-15	C21	UEs supporting 5G Core	
6.1.2.17	Cell reselection / Cell-specific reselection parameters provided by the network in a neighbouring cell list	Rel-15	C21	UEs supporting 5G Core	
6.1.2.18	Cell reselection, Sintrasearch, Snonintrasearch	Rel-15	C21	UEs supporting 5G Core	
6.1.2.19	Speed Dependent Cell Reselection	Rel-15	C21	UEs supporting 5G Core	
6.1.2.20	Inter-frequency cell reselection according to cell reselection priority provided by SIBs	Rel-15	C21	UEs supporting 5G Core	
6.1.2.21	Cell reselection, SIntraSearchQ and SnonIntraSearchQ	Rel-15	C21	UEs supporting 5G Core	
6.1.2.22	Inter-frequency cell reselection based on common priority information with parameters	Rel-15	C21	UEs supporting 5G Core	

Clause	TC Title	Release	Applicability		
			Condition	Comment	
	ThreshX, HighQ, ThreshX, LowQ and ThreshServing, LowQ				
6.1.2.23	Cell reselection/ MFBI	Rel-15	C21	UEs supporting 5G Core	
6.2	Multi-mode environment (NG-RAN, E- UTRAN)				
6.2.1	Inter-RAT PLMN Selection				
6.2.1.1	Inter-RAT PLMN Selection / Selection of correct RAT for OPLMN / Automatic mode	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.1.2	Inter-RAT PLMN Selection / Selection of correct RAT for UPLMN / Automatic mode	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.1.3	Inter-RAT PLMN Selection / Selection of correct PLMN and RAT in shared network environment / Automatic mode	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.1.4	Inter-RAT PLMN Selection / Selection of correct RAT from the OPLMN list / Manual mode	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.1.5	Inter-RAT Background HPLMN Search / Search for correct RAT for HPLMN / Automatic Mode	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.3	Inter-RAT Cell Reselection				
6.2.3.1	Inter-RAT cell reselection / From E-UTRA_Idle to NR RRC_IDLE (lower priority & higher priority, Srxlev based)	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.3.2	Inter-RAT cell reselection / From E-UTRA_Idle to NR RRC_IDLE (lower priority & higher priority, Squal based)	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.3.3	Inter-RAT cell reselection / From NR RRC_Idle to E-UTRA_IDLE (lower priority & higher priority , Srxlev based)	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.3.4	Inter-RAT cell reselection / From NR RRC_Idle to E-UTRA_IDLE (lower priority & higher priority, Squal based)	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.3.5	Inter-RAT cell reselection/From NR RRC_IDLE to E-UTRA_Idle according to RAT priority provided by dedicated signalling (RRCRelease)	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.3.6	Inter-RAT cell reselection / From E-UTRA_Idle to NR RRC_IDLE according to RAT priority provided by dedicated signalling (RRConnRelease)	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.3.7	Inter-RAT cell reselection/From NR RRC_IDLE to E-UTRA RRC_IDLE, Snonintrasearch	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.3.8	Inter-RAT cell reselection/From E-UTRA RRC IDLE to NR RRC Idle, Snonintrasearch	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.2.3.9	Speed Dependent Cell Reselection (NR RRC IDLE to E-UTRA RRC IDLE)	Rel-15	C32	UEs supporting 5G Core and E-UTRA	
6.3	5GS Steering of Roaming				
6.3.1	Steering of Roaming				
6.3.1.1	Steering of UE in roaming during registration/security check successful using List Type 1	Rel-15	C21	UEs supporting 5G Core	
6.3.1.2	Steering of UE in roaming during registration/security check successful but SOR Transparent container indicates ACK has been NOT been requested	Rel-15	C21	UEs supporting 5G Core	
6.3.1.3	Steering of UE in roaming during registration / security check unsuccessful / Automatic mode	Rel-15	C21	UEs supporting 5G Core	
6.3.1.4	Steering of UE in roaming during registration / security check unsuccessful / Manual mode	Rel-15	C21	UEs supporting 5G Core	
6.3.1.8	Steering of UE in roaming after registration / automatic plmn selection mode	Rel-15	C21	UEs supporting 5G Core	
6.3.1.9	Steering of UE in roaming after registration / manual plmn selection mode	Rel-15	C21	UEs supporting 5G Core	
6.4	UE Procedures in RRC_INACTIVE state				
6.4.1	NG-RAN Only PLMN Selection in RRC_INACTIVE state				
6.4.1.1	PLMN Selection/Higher priority/HPLMN in Automatic PLMN Selection Mode	Rel-15	C21	UEs supporting 5G Core	
6.4.2	NG-RAN Only Cell Selection in RRC_INACTIVE State				
6.4.2.1	Cell Selection/Qrxlevmin & Cell Reselection (Intra NR in RRC_INACTIVE state)	Rel-15	C21	UEs supporting 5G Core	
6.4.2.2	Inter-frequency cell reselection according to cell reselection priority provided by SIBs in	Rel-15	C21	UEs supporting 5G Core	

Clause	TC Title	Release		Applicability
			Condition	Comment
	RRC_INACTIVE state			
6.4.3	Inter-RAT Cell Reselection			
6.4.3.1	Inter-RAT cell reselection / From NR RRC_INACTIVE to E-UTRA RRC_IDLE (lower priority & higher priority . Srxley based)	Rel-15	C32	UEs supporting 5G Core and E-UTRA

Table 4.1-1b: Additional Information of Applicability of Protocol conformance Idle mode test cases, ref. TS 38.523-1 [2]

Clause	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
6				
6.1				
6.2				
6.2.1				
6.2.1.1				Rel-15 E-UTRA
6.2.1.2				Rel-15 E-UTRA
6.2.1.3				Rel-15 E-UTRA
6.2.1.4				Rel-15 E-UTRA
6.2.1.5				Rel-15 E-UTRA
6.2.2				
6.2.3				
6.2.3.1				Rel-15 E-UTRA
6.2.3.2				Rel-15 E-UTRA
6.2.3.3				Rel-15 E-UTRA
6.2.3.4				Rel-15 E-UTRA
6.2.3.5				Rel-15 E-UTRA
6.2.3.6				Rel-15 E-UTRA
6.2.3.7				Rel-15 E-UTRA
6.2.3.8				Rel-15 E-UTRA
6.2.3.9				Rel-15 E-UTRA
6.3				
6.3.1				
6.4				
6.4.1				
6.4.2				
6.4.3				
6.4.3.1				Rel-15 E-UTRA

Table 4.1-2a: Applicability of Protocol conformance Layer 2 test cases, ref. TS 38.523-1 [2]

Clause	TC Title	Release		Applicability
			Condition	Comment
7.1.1	MAC			
7.1.1.1	Random Access Procedures			
7.1.1.1	Correct selection of RACH parameters / Random access preamble and PRACH resource explicitly signalled to the UE by RRC / contention free random access procedure	Rel-15	R	UEs supporting 5GS
7.1.1.1a	Correct selection of RACH parameters / Random access preamble and PRACH resource explicitly signalled to the UE by PDCCH Order / contention free random access procedure	Rel-15	R	UEs supporting 5GS
7.1.1.1.2	Random access procedure / Successful/ C- RNTI Based / Preamble selected by MAC itself	Rel-15	R	UEs supporting 5GS
7.1.1.3	Random access procedure / Successful / SI request	Rel-15	R	UEs supporting 5GS
7.1.1.4	Random access procedure / Successful / Beam Failure / Preamble selected by MAC itself / Non-Contention Free RACH procedure	Rel-15	R	UEs supporting 5GS
7.1.1.1.5	Random access procedure / Successful / Supplementary Uplink	Rel-15	C28	UEs supporting 5GS and supplemental uplink with dynamic switch
7.1.1.1.6	Random access procedure / Successful/ Temporary C-RNTI Based / Preamble selected by MAC itself	Rel-15	R	UEs supporting 5GS
7.1.1.2	Downlink Data Transfer			
7.1.1.2.1	Correct Handling of DL MAC PDU / Assignment / HARQ process	Rel-15	R	UEs supporting 5GS

Clause	TC Title	Release		Applicability
			Condition	Comment
7.1.1.2.2	Correct Handling of DL HARQ process PDSCH Aggregation	Rel-15	C20	UEs supporting 5GS and PDSCH aggregation
7.1.1.2.3	Correct HARQ process handling / CCCH	Rel-15	R	UEs supporting 5GS
7.1.1.2.4	Correct HARQ process handling / BCCH	Rel-15	R	UEs supporting 5GS
7.1.1.3 7.1.1.3.1	Uplink Data Transfer Correct Handling of UL MAC PDU / Assignment / HARQ process	Rel-15	R	UEs supporting 5GS
7.1.1.3.2	Logical channel prioritization handling	Rel-15	C02	UEs supporting 5GS and RLC UM Mode
7.1.1.3.2b	Logical channel prioritization handling with Mapping restrictions	Rel-15	R	UEs supporting 5GS
7.1.1.3.3	Correct handling of MAC control information / Scheduling requests	Rel-15	C53	UEs supporting 5GS and Logical Channel SR- Delay Timer
7.1.1.3.4	Correct handling of MAC control information / Buffer status / UL data arrive in the UE Tx buffer / Regular BSR	Rel-15	R	UEs supporting 5GS
7.1.1.3.5	Correct handling of MAC control information / Buffer Status / UL resources are allocated / Padding BSR	Rel-15	R	UEs supporting 5GS
7.1.1.3.6	Correct handling of MAC control information / Buffer status / Periodic BSR timer expires	Rel-15	R	UEs supporting 5GS
7.1.1.3.7	UE power headroom reporting / Periodic reporting / DL pathloss change reporting	Rel-15	R	UEs supporting 5GS
7.1.1.3.8.1	UE power headroom reporting / SCell activation / DL pathloss change reporting / Intra-band Contiguous CA	Rel-15	C44	UEs supporting 5GS and intra-band contiguous CA
7.1.1.3.8.2	UE power headroom reporting / SCell activation / DL pathloss change reporting/ Inter-band CA	Rel-15	C45	UEs supporting 5GS and inter-band CA
7.1.1.3.8.3	UE power headroom reporting / SCell activation / DL pathloss change reporting/ Intraband Non Contiguous CA	Rel-15	C46	UEs supporting 5GS and intra-band non- contiguous CA
7.1.1.3.9	Correct Handling of UL HARQ process / PUSCH Aggregation	Rel-15	C51	UEs supporting 5GS and PUSCH aggregation
7.1.1.4	Transport Size Selection			
7.1.1.4.1	DL-SCH Transport Block Size Selection	Dol 15	CCA	LIFE augmenting ECC
7.1.1.4.1.1	DL-SCH Transport Block Size selection / DCI format 1_0 DL-SCH transport block size selection / DCI	Rel-15	C64	UEs supporting 5GS UEs supporting 5GS and The maximum number
7.1.1.4.1.3	format 1_1 / RA type 0/RA Type 1 / 2 Codewords enabled	Rel-13	K	of spatial multiplexing layer(s) supported by the UE for DL reception. For single CC standalone NR, it is mandatory with capability signaling to support at least 4 MIMO layers in the bands where 4Rx is specified as mandatory for the given UE and at least 2 MIMO layers in FR2. If absent, the UE doesn't support MIMO on this carrier
7.1.1.4.1.4	DL-SCH transport block size selection / DCI format 1_1 / RA type 0/RA Type 1 / 2 Codewords enabled / 256QAM	Rel-15	C65	UEs supporting 5GS and The maximum number of spatial multiplexing layer(s) supported by the UE for DL reception. For single CC standalone NR, it is mandatory with capability signaling to support at least 4 MIMO layers in the bands where 4Rx is specified as mandatory for the given UE and at least 2 MIMO layers in FR2. If absent, the UE doesn't support MIMO on this carrier and 256QAM for PUSCH
7.1.1.4.2	UL-SCH Transport Block Size Selection	Dol 15	D	LIFE augmenting ECC
7.1.1.4.2.1	UL-SCH Transport Block Size selection / DCI format 0_0 / Transform precoding disabled	Rel-15	R	UEs supporting 5GS
7.1.1.4.2.3	UL-SCH transport block size selection / DCI format 0_1 / RA type 0/RA Type 1 / Transform precoding disabled	Rel-15	R	UEs supporting 5GS
7.1.1.4.2.4	UL-SCH transport block size selection / DCI format 1_1 / RA type 0/RA Type / 256QAM / Transform precoding disabled	Rel-15	C11	UEs supporting 5GS and 256QAM for PDSCH for FR1/FR2
7.1.1.4.2.5	UL-SCH Transport Block Size selection / DCI format 0_0 / Transform precoding and 64QAM	Rel-15	R	UEs supporting 5GS
7.1.1.5 7.1.1.5.1	Discontinuous reception	Dol 15	CO2	LIEs supporting ECS and long DDV avala
	DRX operation / Short cycle not configured / Parameters configured by RRC	Rel-15	C03	UEs supporting 5GS and long DRX cycle
7.1.1.5.2	DRX operation / Short cycle not configured / Long DRX command MAC control element reception	Rel-15	C03	UEs supporting 5GS and long DRX cycle
7.1.1.5.3	DRX operation / Short cycle configured /	Rel-15	C04	UEs supporting 5GS and short DRX cycle

Parameters configured by RRC 7.1.1.5.4 ORX Operation / Short cycle configured / DRX 7.1.1.6.1 Oranization / Command MAC control demonst reception / Command MAC record or reception / Command MA	Clause	TC Title	Release	se Applicability		
7.1.1.6. DRX Operation / Short cycle configured / DRX operation / Short cycle configured / DRX operation / Short Charles of the command MAC control element receiption / Short				Condition		
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7.1.2.3.9 AM RLC / Reassembling of AMD PDUs Rel-15 R UEs supporting 5GS 7.1.2.3.10 AM RLC / Re-transmission of RLC PDU with and without re-segmentation Rel-15 R UEs supporting 5GS 7.1.2.3.11 AM RLC / RLC re-establishment procedure Rel-15 R UEs supporting 5GS 7.1.3.1 PDCP	7.1.2.3.7		Rel-15	—————————————————————————————————————	11 0	
7.1.2.3.9 AM RLC / Reassembling of AMD PDUs Rel-15 R UEs supporting 5GS 7.1.2.3.10 AM RLC / Re-transmission of RLC PDU with and without re-segmentation 7.1.2.3.11 AM RLC / RLC re-establishment procedure Rel-15 R UEs supporting 5GS 7.1.3.1 PDCP 7.1.3.1 Maintenance of PDCP sequence numbers for radio bearers 7.1.3.1.1 Maintenance of PDCP sequence numbers / User plane / 12-bit SN 7.1.3.1.2 User plane / 12-bit SN 7.1.3.2 PDCP Integrity Protection 7.1.3.2.1 Integrity protection / Correct functionality of encryption algorithm SNOW3G / SRB / DRB 7.1.3.2.2 Integrity protection / Correct functionality of encryption algorithm AES / SRB / DRB 7.1.3.2.2 Rel-15 R 7.1.3.2.3 UEs supporting 5GS WEs supporting 5GS WEs supporting 5GS WEs supporting 5GS UEs supporting 5GS WEs supporting 5GS WEs supporting 5GS Rel-15 R WEs supporting 5GS WEs supporting 5GS WEs supporting 5GS	7.1.2.3.8		Rel-15	K	UES Supporting 5GS	
7.1.2.3.10 and without re-segmentation 7.1.2.3.11 AM RLC / RLC re-establishment procedure 7.1.3.1 PDCP 7.1.3.1 Maintenance of PDCP sequence numbers for radio bearers 7.1.3.1.1 Maintenance of PDCP sequence numbers / User plane / 12-bit SN 7.1.3.1.2 Maintenance of PDCP sequence numbers / User plane / 18-bit SN 7.1.3.2 PDCP Integrity Protection 7.1.3.2 Integrity protection / Correct functionality of encryption algorithm SNOW3G / SRB / DRB 7.1.3.2.2 Integrity protection / Correct functionality of encryption algorithm AES / SRB / DRB Rel-15 R UEs supporting 5GS Rel-15 R UEs supporting 5GS Rel-15 R UEs supporting 5GS UEs supporting 5GS Rel-15 R UEs supporting 5GS	7.1.2.3.9	AM RLC / Reassembling of AMD PDUs	Rel-15			
7.1.2.3.11 AM RLC / RLC re-establishment procedure Rel-15 R UEs supporting 5GS 7.1.3 PDCP 7.1.3.1 Maintenance of PDCP sequence numbers for radio bearers 7.1.3.1.1 Maintenance of PDCP sequence numbers / User plane / 12-bit SN 7.1.3.1.2 Maintenance of PDCP sequence numbers / User plane / 18-bit SN 7.1.3.2 PDCP Integrity Protection 7.1.3.2.1 Integrity protection / Correct functionality of encryption algorithm SNOW3G / SRB / DRB 7.1.3.2.2 Integrity protection / Correct functionality of encryption algorithm AES / SRB / DRB Rel-15 R UEs supporting 5GS Rel-15 R UEs supporting 5GS Rel-15 R UEs supporting 5GS	7.1.2.3.10		Rel-15	R	UEs supporting 5GS	
7.1.3.1 Maintenance of PDCP sequence numbers for radio bearers 7.1.3.1.1 Maintenance of PDCP sequence numbers / User plane / 12-bit SN 7.1.3.1.2 Maintenance of PDCP sequence numbers / User plane / 12-bit SN 7.1.3.1.2 Maintenance of PDCP sequence numbers / User plane / 18-bit SN 7.1.3.2 PDCP Integrity Protection 7.1.3.2.1 Integrity protection / Correct functionality of encryption algorithm SNOW3G / SRB / DRB 7.1.3.2.2 Integrity protection / Correct functionality of encryption algorithm AES / SRB / DRB Rel-15 R UEs supporting 5GS Rel-15 R UEs supporting 5GS	7.1.2.3.11		Rel-15	R	UEs supporting 5GS	
7.1.3.1.1 Maintenance of PDCP sequence numbers / User plane / 12-bit SN 7.1.3.1.2 Maintenance of PDCP sequence numbers / User plane / 12-bit SN 7.1.3.1.2 Maintenance of PDCP sequence numbers / User plane / 18-bit SN 7.1.3.2 PDCP Integrity Protection 7.1.3.2.1 Integrity protection / Correct functionality of encryption algorithm SNOW3G / SRB / DRB 7.1.3.2.2 Integrity protection / Correct functionality of encryption algorithm AES / SRB / DRB Rel-15 R UEs supporting 5GS Rel-15 R UEs supporting 5GS UEs supporting 5GS		Maintenance of PDCP sequence numbers				
7.1.3.1.2 Maintenance of PDCP sequence numbers / User plane / 18-bit SN 7.1.3.2 PDCP Integrity Protection 7.1.3.2.1 Integrity protection / Correct functionality of encryption algorithm SNOW3G / SRB / DRB 7.1.3.2.2 Integrity protection / Correct functionality of encryption algorithm AES / SRB / DRB Rel-15 R UEs supporting 5GS Rel-15 R UEs supporting 5GS	7.1.3.1.1	Maintenance of PDCP sequence numbers /	Rel-15	C08		
7.1.3.2 PDCP Integrity Protection Rel-15 7.1.3.2.1 Integrity protection / Correct functionality of encryption algorithm SNOW3G / SRB / DRB Rel-15 R UEs supporting 5GS 7.1.3.2.2 Integrity protection / Correct functionality of encryption algorithm AES / SRB / DRB Rel-15 R UEs supporting 5GS	7.1.3.1.2	Maintenance of PDCP sequence numbers /	Rel-15	R		
7.1.3.2.1 Integrity protection / Correct functionality of encryption algorithm SNOW3G / SRB / DRB 7.1.3.2.2 Integrity protection / Correct functionality of encryption algorithm AES / SRB / DRB Rel-15 R UEs supporting 5GS Rel-15 R UEs supporting 5GS	7.1.3.2					
7.1.3.2.2 Integrity protection / Correct functionality of encryption algorithm AES / SRB / DRB Rel-15 R UEs supporting 5GS	7.1.3.2.1	Integrity protection / Correct functionality of	Rel-15	R	UEs supporting 5GS	
	7.1.3.2.2	Integrity protection / Correct functionality of	Rel-15	R	UEs supporting 5GS	
	7.1.3.2.3		Rel-15	C09	UEs supporting 5GS and ZUC algorithm	

Clause	TC Title	Release	Applicability		
			Condition	Comment	
	encryption algorithm ZUC / SRB / DRB				
7.1.3.3	PDCP Ciphering and deciphering				
7.1.3.3.1	Ciphering and deciphering / Correct functionality of encryption algorithm SNOW3G / SRB / DRB	Rel-15	R	UEs supporting 5GS	
7.1.3.3.2	Ciphering and deciphering / Correct functionality of encryption algorithm AES / SRB / DRB	Rel-15	R	UEs supporting 5GS	
7.1.3.3.3	Ciphering and deciphering / Correct functionality of encryption algorithm ZUC / SRB / DRB	Rel-15	C09	UEs supporting 5GS and ZUC algorithm	
7.1.3.4	PDCP Handover				
7.1.3.4.1	PDCP handover / Lossless handover / PDCP sequence number maintenance/PDCP status report to convey the information on missing or acknowledged PDCP SDUs at handover / Inorder delivery and duplicate elimination in the downlink	Rel-15	R	UEs supporting 5GS	
7.1.3.4.2	PDCP handover / Non-lossless handover / PDCP sequence number maintenance	Rel-15	R	UEs supporting 5GS	
7.1.3.5	PDCP Other				
7.1.3.5.1	PDCP Discard	Rel-15	C02	UEs supporting 5GS and RLC UM Mode	
7.1.3.5.2	PDCP Uplink Routing / Split DRB	Rel-15	C10	UEs supporting 5GS and UL transmission via both MCG path and SCG path for the split DRB	
7.1.3.5.3	PDCP Data Recovery	Rel-15	R	UEs supporting 5GS	
7.1.3.5.4	PDCP reordering / Maximum re-ordering delay below t-Reordering / t-Reordering timer operations	Rel-15	R	UEs supporting 5GS	
7.1.3.5.5	PDCP Duplication	Rel-15	C62	UEs supporting 5GS and PDCP duplication over split DRB	
7.1.4	SDAP				
7.1.4.1	SDAP Data Transfer and PDU Header Handling UL/DL	Rel-15	C21A	UEs supporting 5G Core and reflective QoS	
7.1.4.2	SDAP Data Transfer handling without Header UL/DL	Rel-15	C21	UEs supporting 5G Core	
7.1.10	Other MAC Procedures				
7.1.10.1	DataInactivityTimer expiry	Rel-15	C21	UEs supporting 5G Core	

Table 4.1-2b: Additional Information of Applicability of Protocol conformance Layer 2 test cases, ref. TS 38.523-1 [2]

Clause	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
7.1.1				
FFS				

Table 4.1-3a: Applicability of Protocol conformance RRC test cases, ref. TS 38.523-1 [2]

Clause	TC Title	Release	Applicability	
			Condition	Comment
8.1.1	RRC connection management procedures			
8.1.1.1	Paging			
8.1.1.1.1	RRC / Paging for connection / Multiple paging records	Rel-15	C21	UEs supporting 5G Core
8.1.1.1.2	RRC / Paging for connection / Shared network environment	Rel-15	C21	UEs supporting 5G Core
8.1.1.2	RRC connection establishment			
8.1.1.2.1	RRC connection establishment / Return to idle state after T300 expiry	Rel-15	C21	UEs supporting 5G Core
8.1.1.2.3	RRC connection establishment / RRC Reject with wait time	Rel-15	C21	UEs supporting 5G Core
8.1.1.3	RRC Release			
8.1.1.3.1	RRC connection release / Redirection to another NR frequency	Rel-15	C21	UEs supporting 5G Core
8.1.1.3.2	RRC connection release / Redirection from NR to E-UTRAN	Rel-15	C32	UEs supporting 5G Core and E-UTRA
8.1.1.3.3	RRC connection release / Success / With priority information	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release	Applicability		
			Condition	Comment	
8.1.1.3.4	RRC connection release / Success / With priority information / E-UTRA	Rel-15	C26	UEs supporting 5GS and E-UTRA	
8.1.1.3.5	Void				
8.1.1.3.6 8.1.1.4	Void RRC Resume				
8.1.1.4.1	RRC resume / Suspend-Resume / RNA update / Success	Rel-15	C21	UEs supporting 5G Core	
8.1.1.4.2	RRC resume / Suspend-Resume / RRC setup / T319 expiry	Rel-15	C21	UEs supporting 5G Core	
8.1.1.4.3	Void				
8.1.2	RRC reconfiguration				
8.1.2.1	Radio bearer establishment / reconfiguration / release	5.145	001		
8.1.2.1.1	RRC reconfiguration / DRB / SRB / Establishment / Modification / Release / Success	Rel-15	C21	UEs supporting 5G Core	
8.1.2.1.2	RRC reconfiguration / RRC bearer establishment / uplinkTxDirectCurrentList	Rel-15	C21	UEs supporting 5G Core	
8.1.2.1.3 8.1.2.1.4	Void RRC reconfiguration / Dedicated RLF timer	Rel-15	R	UEs supporting 5GS	
8.1.2.1.5	NR CA / RRC reconfiguration / SCell addition / modification / release / Success	Kei-15	K	DES Supporting 505	
8.1.2.1.5.1	NR CA / RRC reconfiguration / SCell addition /	Rel-15	C44	UEs supporting 5GS and intra-band contiguous	
0.1.2.1.3.1	modification / release / Success / Intra-band Contiguous CA	IXCI 15	044	CA	
8.1.2.1.5.2	NR CA / RRC reconfiguration / SCell addition / modification / release / Success / Inter-band CA	Rel-15	C45	UEs supporting 5GS and inter-band CA	
8.1.2.1.5.3	NR CA / RRC reconfiguration / SCell addition / modification / release / Success / Intra-band non-contiguous CA	Rel-15	C46	UEs supporting 5GS and intra-band non- contiguous CA	
8.1.3	Measurement configuration control and				
	reporting				
8.1.3.1	Intra NR measurements	D 145	001		
8.1.3.1.1	Measurement configuration control and reporting / Intra NR measurements / Event A1 / Event A2	Rel-15	C21	UEs supporting 5G Core	
8.1.3.1.2	Measurement configuration control and reporting / Event A3 / Measurement of Neighbor NR cell / Intra-frequency measurements	Rel-15	C21	UEs supporting 5G Core	
8.1.3.1.3	Measurement configuration control and reporting / Event A3 / Measurement of Neighbor NR cell / Inter-frequency measurements	Rel-15	C21	UEs supporting 5G Core	
8.1.3.1.4	Measurement configuration control and reporting / Event A3 / Measurement of Neighbor NR cell / Inter-band measurements	Rel-15	C21	UEs supporting 5G Core	
8.1.3.1.5	Measurement configuration control and reporting / Event A4 / Measurement of Neighbor NR cell / Intra-frequency measurements	Rel-15	C21	UEs supporting 5G Core	
8.1.3.1.6	Measurement configuration control and reporting / Event A4 / Measurement of Neighbor NR cell / Inter-frequency measurements	Rel-15	C21	UEs supporting 5G Core	
8.1.3.1.7	Measurement configuration control and reporting / Event A4 / Measurement of Neighbor NR cell / Inter-band measurements	Rel-15	C21	UEs supporting 5G Core	
8.1.3.1.8	Measurement configuration control and reporting / Event A5 / Measurement of Neighbor NR cell / Intra-frequency measurements	Rel-15	C21	UEs supporting 5G Core	
8.1.3.1.9	Measurement configuration control and reporting / Event A5 / Measurement of Neighbor NR cell / Inter-frequency measurements	Rel-15	C21	UEs supporting 5G Core	
8.1.3.1.10	Measurement configuration control and reporting / Event A5 / Measurement of Neighbor NR cell / Inter-band measurements	Rel-15	C21	UEs supporting 5G Core	
8.1.3.1.11	Measurement configuration control and reporting / Intra NR measurements / Two simultaneous events A3 (intra and inter-	Rel-15	C21	UEs supporting 5GCore	

Clause	TC Title	Release	Applicability		
			Condition	Comment	
	frequency measurements) / RSRQ based measurements				
8.1.3.1.12	Measurement configuration control and reporting / Intra NR measurements / Two simultaneous events A5 (intra and interfrequency measurements) / SINR based measurements	Rel-15	C40	UEs supporting 5G Core and SS-SINR measurements	
8.1.3.1.13	Measurement configuration control and reporting / SS/PBCH block based / CSI-RS based intra-frequency measurements / Measurement of Neighbor NR cell	Rel-15	C52	UEs supporting 5G Core and NR measurements and Event A triggered reporting and (NR Intra- frequency and Inter frequency measurements and at least periodical reporting) and CSI-RSRP measurement	
8.1.3.1.14	Void				
8.1.3.1.14A	Measurement configuration control and reporting / SS/PBCH block based / CSI-RS based inter-frequency measurements / Measurement of Neighbor NR cell	Rel-15	C52	UEs supporting 5G Core and NR measurements and Event A triggered reporting and (NR Intra- frequency and Inter frequency measurements and at least periodical reporting) and CSI-RSRP measurement	
8.1.3.1.15	Void	D 145	001	. 50.0	
8.1.3.1.15A	Measurement configuration control and reporting / Intra NR measurements / Blacklisting	Rel-15	C21	UEs supporting 5G Core	
8.1.3.1.16	Measurement configuration control and reporting / Intra NR measurements / Whitelisting	Rel-15	C21	UEs supporting 5G Core	
8.1.3.1.17	NR CA / Measurement configuration control and reporting / Intra NR measurements / Event A6				
8.1.3.1.17.1	NR CA / Measurement configuration control and reporting / Intra NR measurements / Event A6 / Intra-band Contiguous CA	Rel-15	C41	UEs supporting 5G Core and intra-band contiguous CA	
8.1.3.1.17.2	NR CA / Measurement configuration control and reporting / Intra NR measurements / Event A6 / Inter-band CA	Rel-15	C42	UEs supporting 5G Core and inter-band CA	
8.1.3.1.17.3	NR CA / Measurement configuration control and reporting / Intra NR measurements / Event A6 / Intra-band non-Contiguous CA	Rel-15	C43	UEs supporting 5G Core and intra-band non- contiguous CA	
8.1.3.1.18	NR CA / Measurement configuration control and reporting / Intra NR measurements / Additional measurement reporting				
8.1.3.1.18.1	NR CA / Measurement configuration control and reporting / Intra NR measurements / Additional measurement reporting / Intra-band Contiguous CA	Rel-15	C41	UEs supporting 5G Core and intra-band contiguous CA	
8.1.3.1.18.2	NR CA / Measurement configuration control and reporting / Intra NR measurements / Additional measurement reporting / Inter-band CA	Rel-15	C42	UEs supporting 5G Core and inter-band CA	
8.1.3.1.18.3	NR CA / Measurement configuration control and reporting / Intra NR measurements / Additional measurement reporting / Intra-band non-Contiguous CA	Rel-15	C43	UEs supporting 5G Core and intra-band non- contiguous CA	
8.1.3.1.20	Measurement configuration control and reporting / Measurement Gaps / gapFR1	Rel-15	C49	UE supporting 5G Core and two independent measurement gap configurations for FR1 and FR2	
8.1.3.1.21	Measurement configuration control and reporting / Measurement Gaps / gapFR2	Rel-15	C49	UE supporting 5G Core and two independent measurement gap configurations for FR1 and FR2	
8.1.3.1.23	Measurement configuration control and reporting / Intra NR measurements / Continuation of the measurements after RRC Resume	Rel-15	C21	UEs supporting 5G Core	
8.1.3.2 8.1.3.2.1	Inter-RAT measurements Measurement configuration control and	Dol 1E	C31	LIES SUPPORTING FC Core and Inter DATE LIEDA	
0.1.3.2.1	Measurement configuration control and reporting / Inter-RAT measurements / Event B1 / Measurement of E-UTRA cells	Rel-15	C31	UEs supporting 5G Core and Inter-RAT E-UTRA measurements and Event B triggered reporting	
8.1.3.2.2	Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of E-UTRA cells	Rel-15	C31	UEs supporting 5G Core and Inter-RAT E-UTRA measurements and Event B triggered reporting	
8.1.3.2.3	Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of E-UTRA cells / RSRQ based measurements	Rel-15	C31	UEs supporting 5G Core and Inter-RAT E-UTRA measurements and Event B triggered reporting	
8.1.3.2.4	Measurement configuration control and	Rel-15	C50	UEs supporting 5G Core and Inter-RAT E-UTRA	

Clause	TC Title	Release	elease Applicability	
			Condition	Comment
	reporting / Inter-RAT measurements / Event			measurements and Event B triggered reporting
	B2 / Measurement of E-UTRA cells / SINR			and SS-SINR measurements
	based measurements			
8.1.3.3	Measurements for self-optimized networks	Delias	050	LIFE comparison FO October 2014 Co.
8.1.3.3.1	Measurement configuration control and reporting / CGI reporting of NR cell	Rel-15	C59	UEs supporting 5G Core and Support acquisition of relevant information from a neighbouring intrafrequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when EN-DC is not configured.
8.1.3.3.2	Measurement configuration control and reporting / CGI reporting of E-UTRA cell	Rel-15	C60	UEs supporting 5G Core and Support acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the EN-DC is not configured.
8.1.4	Handover			
8.1.4.1	Intra NR handover			
8.1.4.1.1	Void			
8.1.4.1.2	Intra NR handover / Success / Inter-frequency	Rel-15	C21	UEs supporting 5G Core
8.1.4.1.3	Void			
8.1.4.1.4 8.1.4.1.5	Void Intra NR handover / Failure / Re-establishment	Rel-15	C21	UEs supporting 5G Core
8.1.4.1.6	Intra NR handover / Failure / Re-establishment failure	Rel-15	C21	UEs supporting 5G Core
8.1.4.1.7	NR CA / Intra NR handover / Success / PCell			
0444=:	Change and SCell addition / SCell release	D 145	0.11	LUEs supporting EQ Q
8.1.4.1.7.1	NR CA / Intra NR handover / Success / PCell Change and SCell addition / SCell release / Intra-band Contiguous CA	Rel-15	C44	UEs supporting 5G Core and intra-band contiguous CA
8.1.4.1.7.2	NR CA / Intra NR handover / Success / PCell Change and SCell addition / SCell release / Inter-band CA	Rel-15	C45	UEs supporting 5G Core and inter-band CA
8.1.4.1.7.3	NR CA / Intra NR handover / Success / PCell Change and SCell addition / SCell release / Intra-band non-contiguous CA	Rel-15	C46	UEs supporting 5G Core and intra-band non- contiguous CA
8.1.4.1.8	NR CA / Intra NR handover / Success / PCell Change / SCell no Change			
8.1.4.1.8.1	NR CA / Intra NR handover / Success / PCell Change / SCell no Change / Intra-band Contiguous CA	Rel-15	C44	UEs supporting 5G Core and intra-band contiguous CA
8.1.4.1.8.2	NR CA / Intra NR handover / Success / PCell Change / SCell no Change / Inter-band CA	Rel-15	C45	UEs supporting 5G Core and inter-band CA
8.1.4.1.8.3	NR CA / Intra NR handover / Success / PCell Change / SCell no Change / Intra-band non- contiguous CA	Rel-15	C46	UEs supporting 5G Core and intra-band non- contiguous CA
8.1.4.1.9	NR CA / Intra NR handover / Failure / Re- establishment successful			
8.1.4.1.9.1	NR CA / Intra NR handover / Failure / Re- establishment successful / Intra-band Contiguous CA	Rel-15	C414	UEs supporting 5G Core and intra-band contiguous CA
8.1.4.1.9.2	NR CA / Intra NR handover / Failure / Re- establishment successful / Inter-band CA	Rel-15	C425	UEs supporting 5G Core and inter-band CA
8.1.4.1.9.3	NR CA / Intra NR handover / Failure / Re- establishment successful / Intra-band non- contiguous CA	Rel-15	C436	UEs supporting 5G Core and intra-band non- contiguous CA
8.1.4.2	Inter-RAT handover			
8.1.4.2.1	Inter-RAT handover NR to E-UTRA			
8.1.4.2.1.1	Inter-RAT handover / From NR to E-UTRA / Success	Rel-15	C32	UEs supporting 5G Core and E-UTRA
8.1.4.2.1.2	Inter-RAT handover / From NR to E-UTRA / Failure	Rel-15	C26	UEs supporting 5GS and E-UTRA
8.1.4.2.2	Inter-RAT handover to NR	Delias	000	LIFE COMPANIES FOR THE LIFE
8.1.4.2.2.1	Inter-RAT handover / From E-UTRA to NR / Success	Rel-15	C26	UEs supporting 5GS and E-UTRA
8.1.4.2.2.2	Inter-RAT handover / From E-UTRA to NR / Failure	Rel-15	C26	UEs supporting 5GS and E-UTRA
8.1.5 8.1.5.1	RRC others UE capability transfer			
8.1.5.1.1	UE Capability transfer / Success	Rel-15	C21	UEs supporting 5G Core
8.1.5.2	SI change / On-demand SIB	1.0. 10		
	SI change / Notification of BCCH modification /	Rel-15	R	UEs supporting 5GS

Clause	TC Title	Release		
			Condition	Comment
0152	Short message for SI update PWS notification			
8.1.5.3 8.1.5.3.1	PWS notification / PWS reception in NR	Rel-15	C35	UEs supporting 5G Core and (ETWS reception
0.1.0.0.1	RRC_IDLE state	110113		or CMAS reception)
8.1.5.3.2	PWS notification / PWS reception in NR RRC INACTIVE state	Rel-15	C35	UEs supporting 5G Core and (ETWS reception or CMAS reception)
8.1.5.3.3	PWS notification / PWS reception in NR RRC CONNECTED state	Rel-15	C35	UEs supporting 5G Core and (ETWS reception or CMAS reception)
8.1.5.3.4	PWS notification / PWS reception using dedicatedSystemInformationDelivery	Rel-15	C35	UEs supporting 5G Core and (ETWS reception or CMAS reception)
8.1.5.5	Redirection to NR			of Civias reception)
8.1.5.5.1	Redirection to NR / From E-UTRA / Success	Rel-15	C21	UEs supporting 5G Core
8.1.5.6	Radio link failure			
8.1.5.6.1	Radio link failure / RRC connection re- establishment success	Rel-15	C21	UEs supporting 5G Core
8.1.5.6.2	Void			
8.1.5.6.3	Radio link failure / T311 expiry	Rel-15	C21	UEs supporting 5G Core
8.1.5.6.4 8.1.5.6.5	Void NR CA / No Radio Link Failure on SCell /			
0.1.5.6.5	RRC Connection Continues on Pcell			
8.1.5.6.5.1	NR CA / No Radio Link Failure on SCell / RRC Connection Continues on PCell / Intra-band Contiguous CA	Rel-15	C414	UEs supporting 5G Core and intra-band contiguous CA
8.1.5.6.5.2	NR CA / No Radio Link Failure on SCell / RRC	Rel-15	C425	UEs supporting 5G Core and inter-band CA
8.1.5.6.5.3	Connection Continues on PCell / Inter-band CA NR CA / No Radio Link Failure on SCell / RRC	Rel-15	C436	UEs supporting 5G Core and intra-band non-
0.1.3.0.3.3	Connection Continues on PCell / Intra-band non-Contiguous CA	IXCI 13	0430	contiguous CA
8.2.1	UE Capability / RRC Others			
8.2.1.1	UE capability transfer / Success			
8.2.1.1.1	UE capability transfer / Success / EN-DC	Rel-15	C01	UEs supporting EN-DC
8.2.1.2	BandwidthPart Configuration / SCG	D 145	004	
8.2.1.2.1 8.2.2	BandwidthPart Configuration / SCG / EN-DC Radio Bearer Addition, Modification and	Rel-15	C01	UEs supporting EN-DC
0.2.2	Release			
8.2.2.1	SRB3 Establishment, Reconfiguration and Release / NR addition, modification and release			
8.2.2.1.1	SRB3 Establishment, Reconfiguration and Release / NR addition, modification and release / EN-DC	Rel-15	C22	UEs supporting EN-DC and SRB3
8.2.2.2	Split SRB Establishment and Release			
8.2.2.2.1	Split SRB Establishment and Release / EN-DC	Rel-15	C61	UEs supporting EN-DC and UL transmission via either MCG path or SCG path for the split SRB
8.2.2.3	Simultaneous SRB3 and Split SRB / Sequential message flow on SRB3 and Split SRB			
8.2.2.3.1	Simultaneous SRB3 and Split SRB / Sequential message flow on SRB3 and Split SRB / EN-DC	Rel-15	C23	UEs supporting EN-DC, UL transmission via either MCG path or SCG path for the split SRB and SRB3
8.2.2.4	PSCell Addition, Modification and Release I SCG DRB			
8.2.2.4.1	PSCell addition, modification and release / SCG DRB / EN-DC	Rel-15	C01	UEs supporting EN-DC
8.2.2.5	PSCell Addition, Modification and Release / Split DRB			
8.2.2.5.1	PSCell addition, modification and release / Split DRB / EN-DC	Rel-15	C01	UEs supporting EN-DC
8.2.2.6	Bearer Modification / MCG DRB / SRB / PDCP version change			
8.2.2.6.1	Bearer Modification / MCG DRB / SRB / PDCP version change / EN-DC	Rel-15	C01	UEs supporting EN-DC
8.2.2.7	Bearer Modification / Handling for bearer type change without security key change			
8.2.2.7.1	Bearer Modification / Handling for bearer type change without security key change / EN-DC	Rel-15	C01	UEs supporting EN-DC
8.2.2.8	Bearer Modification / Handling for bearer type change with security key change			
8.2.2.8.1	Bearer Modification / Handling for bearer type change with security key change / EN-DC	Rel-15	C01	UEs supporting EN-DC
8.2.2.9	Bearer Modification / Uplink data path / Split DRB Reconfiguration			
8.2.2.9.1	Bearer Modification / Uplink data path / Split	Rel-15	C01	UEs supporting EN-DC

Clause	TC Title	Release		Applicability
			Condition	Comment
	DRB Reconfiguration / EN-DC			
8.2.3	Measurement Configuration Control and Reporting / Handovers			
8.2.3.1	Measurement configuration control and reporting / Inter-RAT measurements / Event B1 / Measurement of NR cells			
8.2.3.1.1	Measurement configuration control and reporting / Inter-RAT measurements / Event B1 / Measurement of NR cells / EN-DC	Rel-15	C01	UEs supporting EN-DC
8.2.3.2	Measurement configuration control and reporting / Inter-RAT measurements / Event B1 / Measurement of NR cells / RSRQ based measurements			

Clause	TC Title	Release		Applicability
0 2 2 2 1	Moscurament configuration control and		Condition	Comment UEs supporting EN-DC
8.2.3.2.1	Measurement configuration control and reporting / Inter-RAT measurements / Event B1 / Measurement of NR cells / RSRQ based measurements / EN-DC	Rel-15	C01	DES Supporting EN-DC
8.2.3.3	Measurement configuration control and reporting / Inter-RAT measurements / Periodic reporting / Measurement of NR cells			
8.2.3.3.1	Measurement configuration control and reporting / Inter-RAT measurements / Periodic reporting / Measurement of NR cells / EN-DC	Rel-15	C01	UEs supporting EN-DC
8.2.3.4	Measurement configuration control and reporting / Event A1 / Measurement of NR PSCell			
8.2.3.4.1	Measurement configuration control and reporting / Event A1 / Measurement of NR PSCell / EN-DC	Rel-15	C13	UEs supporting EN-DC and NR measurements and Event A triggered reporting
8.2.3.5	Measurement configuration control and reporting / Event A2 / Measurement of NR PSCell			
8.2.3.5.1	Measurement configuration control and reporting / Event A2 / Measurement of NR PSCell / EN-DC	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR Intra- frequency and NR-Inter frequency measurements and at least periodical reporting)
8.2.3.6	Measurement configuration control and reporting / Event A3 / Measurement of Neighbour NR cell			
8.2.3.6.1	Measurement configuration control and reporting / Event A3 / Measurement of Neighbour NR cell / Intra-frequency measurements / EN-DC	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR intra- frequency and inter-frequency measurements and at least periodical reporting)
8.2.3.6.1a	Measurement configuration control and reporting / Event A3 / Measurement of Neighbour NR cell / Inter-frequency measurements / EN-DC	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR intra- frequency and inter-frequency measurements and at least periodical reporting)
8.2.3.6.1b	Measurement configuration control and reporting / Event A3 / Measurement of Neighbour NR cell / Inter-band measurements / EN-DC	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR intra- frequency and inter-frequency measurements and at least periodical reporting)
8.2.3.7	Measurement configuration control and reporting / Event A4 / Measurement of Neighbour NR cell			
8.2.3.7.1	Measurement configuration control and reporting / Event A4 / Measurement of Neighbour NR cell / Intra-frequency measurements / EN-DC	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR intra- frequency and inter-frequency measurements and at least periodical reporting)
8.2.3.7.1a	Measurement configuration control and reporting / Event A4 / Measurement of Neighbour NR cell / Inter-frequency measurements / EN-DC	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR intra- frequency and inter-frequency measurements and at least periodical reporting)
8.2.3.7.1b	Measurement configuration control and reporting / Event A4 / Measurement of Neighbour NR cell / Inter-band measurements / EN-DC	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR intra- frequency and inter-frequency measurements and at least periodical reporting)
8.2.3.8	Measurement configuration control and reporting / Event A5 (intra-frequency, interfrequency and inter-band measurements) / Measurement of Neighbour NR cell			
8.2.3.8.1	Measurement configuration control and reporting / Event A5 / Measurement of Neighbour NR cell / Intra-frequency measurements / EN-DC	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR intra- frequency and inter-frequency measurements and at least periodical reporting)
8.2.3.8.1a	Measurement configuration control and reporting / Event A5 / Measurement of Neighbour NR cell / Inter-frequency measurements / EN-DC	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR intra- frequency and inter-frequency measurements and at least periodical reporting)
8.2.3.8.1b	Measurement configuration control and reporting / Event A5 / Measurement of Neighbour NR cell / Inter-band measurements / EN-DC	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR intra- frequency and inter-frequency measurements and at least periodical reporting)
8.2.3.9	Measurement configuration control and reporting / SS/PBCH block based / CSI-RS based intra-frequency measurements / Measurement of Neighbour NR cell			

Clause	TC Title	Release		Applicability
0.0.0.1			Condition	Comment
8.2.3.9.1	Measurement configuration control and reporting / SS/PBCH block based / CSI-RS based intra-frequency measurements / Measurement of Neighbour NR Cell / EN-DC	Rel-15	C15	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR Intra- frequency and Inter frequency measurements and at least periodical reporting) and CSI-RSRP measurement
8.2.3.10	Measurement configuration control and reporting / SS/PBCH block based / CSI-RS based inter-frequency measurements / Measurement of Neighbour NR cell			
8.2.3.10.1	Measurement configuration control and reporting / SS/PBCH block based / CSI-RS based inter-frequency measurements / Measurement of Neighbour NR Cell	Rel-15	C15	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR Intra- frequency and Inter frequency measurements) and CSI-RSRP measurement
8.2.3.11	Measurement Gaps patterns Related		004	LIFE CONTROL FALSE CONTROL FOR THE CONTROL FOR
8.2.3.11.1	Measurement configuration control and reporting / Measurement Gaps / NR FR1 / ENDC	Rel-15	C24	UEs supporting EN-DC and (NR intra-frequency and inter-frequency measurements and at least periodical reporting) and (two independent measurement gap configurations for FR1 and FR2) and Inter-Band EN-DC within FR1
8.2.3.11.2	Measurement Gaps patterns Related / LTE / NR FR2 / EN-DC	Rel-15	C25	UEs supporting EN-DC and (NR intra-frequency and inter-frequency measurements and at least periodical reporting) and (two independent measurement gap configurations for FR1 and FR2) and Inter-Band EN-DC including FR2
8.2.3.12	Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of NR cells			
8.2.3.12.1	Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of NR cells / EN-DC	Rel-15	C01	UEs supporting EN-DC
8.2.3.13	PSCell Handover with SCG change / Reconfiguration with sync / SCG DRB			
8.2.3.13.1	PSCell Handover with SCG change / Reconfiguration with sync / SCG DRB / EN-DC	Rel-15	C01	UEs supporting EN-DC
8.2.3.14	SCG change / Reconfiguration with sync / Split DRB			
8.2.3.14.1	SCG change / Reconfiguration with sync / Split DRB / EN-DC	Rel-15	C01	UEs supporting EN-DC
8.2.3.15	Measurement configuration control and reporting / Two simultaneous events A2 and A3 (intra-frequency measurements) / Measurement of Neighbour NR cells			
8.2.3.15.1	Measurement configuration control and reporting / Two simultaneous events A2 and A3 (intra-frequency measurements) / Measurement of Neighbour NR cells / EN-DC	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR Intra- frequency and NR-Inter frequency measurements and at least periodical reporting)
8.2.4 8.2.4.1	Carrier Aggregation NR CA / NR SCell addition / modification / release / Success			
8.2.4.1.1	NR CA / NR SCell addition / modification / release / Success / EN-DC			
8.2.4.1.1.1	NR CA / NR SCell addition / modification / release / Success / EN-DC / Intra-band Contiguous CA	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR intrafrequency and inter-frequency measurements and at least periodical reporting)
8.2.4.1.1.2	NR CA / NR SCell addition / modification / release / Success / EN-DC / Intra-band non-Contiguous CA	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR intra- frequency and inter-frequency measurements and at least periodical reporting)
8.2.4.1.1.3	NR CA / NR SCell addition / modification / release / Success / EN-DC / Inter-band CA	Rel-15	C14	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR intra- frequency and inter-frequency measurements and at least periodical reporting)
8.2.4.2	NR CA / Simultaneous PSCell and SCell addition / PSCell and SCell change / CA Release			
8.2.4.2.1	NR CA / Simultaneous PSCell and SCell addition / PSCell and SCell change / CA Release / EN-DC			
8.2.4.2.1.1	NR CA / Simultaneous PSCell and SCell addition / PSCell and SCell change / CA Release / EN-DC / Intra-band Contiguous CA	Rel-15	C01	UEs supporting EN-DC
8.2.4.2.1.2	NR CA / Simultaneous PSCell and SCell addition / PSCell and SCell change / CA	Rel-15	C01	UEs supporting EN-DC

Clause	TC Title	Release	Applicability		
			Condition	Comment	
	Release / EN-DC / Intra-band non-Contiguous				
	CA				
8.2.4.2.1.3	NR CA / Simultaneous PSCell and SCell		C01	UEs supporting EN-DC	
	addition / PSCell and SCell change / CA	Rel-15			
0.0.4.0	Release / EN-DC / Inter-band CA				
8.2.4.3	NR CA / SCell change / Intra-NR				
8.2.4.3.1	measurement event A6 / SRB3 NR CA / SCell change / Intra-NR				
8.2.4.3.1	measurement event A6 / SRB3 / EN-DC				
8.2.4.3.1.1	NR CA / SCell change / Intra-NR measurement		C55	UEs supporting EN-DC and NR measurements	
0.2.4.5.1.1	event A6 / SRB3 / EN-DC / Intra-band	Rel-15	033	and Event A triggered reporting and intra-band	
	Contiguous CA	IXEI-13		contiguous CA	
8.2.4.3.1.2	NR CA / SCell change / Intra-NR measurement			UEs supporting EN-DC and NR measurements	
0.2. 1.0.1.2	event A6 / SRB3 / EN-DC / Intra-band non-	Rel-15	C56	and Event A triggered reporting and inter-band	
	Contiguous CA	110. 20		CA	
8.2.4.3.1.3				UEs supporting EN-DC and NR measurements	
	NR CA / SCell change / Intra-NR measurement	Rel-15	C57	and Event A triggered reporting and intra-band	
	event A6 / SRB3 / EN-DC / Inter-band CA			non-contiguous CA	
8.2.5	Reconfiguration Failure / Radio link failure				
8.2.5.1	Radio link failure / PSCell addition failure				
8.2.5.1.1	Radio link failure / PSCell addition failure -	Rel-15	C01	UEs supporting EN-DC	
	random access problem / EN-DC	Kei-13			
8.2.5.2	Radio link failure / PSCell out of sync				
	indication				
8.2.5.2.1	Radio link failure / PSCell out of sync indication	Rel-15	C01	UEs supporting EN-DC	
	/ Radio link failure / EN-DC	1101			
8.2.5.3	Radio link failure / rlc-MaxNumRetx failure		001	115 11 50	
8.2.5.3.1	Radio link failure / rlc-MaxNumRetx failure /	Rel-15	C01	UEs supporting EN-DC	
8.2.5.4	EN-DC				
8.2.5.4 8.2.5.4.1	Reconfiguration failure / SCG change failure Reconfiguration failure / SCG change failure /		C01	LIFE augmenting ENI DC	
8.2.5.4.1	EN-DC	Rel-15	COI	UEs supporting EN-DC	
8.2.5.5	Reconfiguration failure / SCG				
0.2.3.3	Reconfiguration failure / SRB3				
8.2.5.5.1	Void				
8.2.5.6	Reconfiguration failure / SCG				
	Reconfiguration failure / SRB1				
8.2.5.6.1	Void				
8.2.6	MR-DC RRC others				
8.2.6.1	Failure information / RLC failure / SCG				
8.2.6.1.1	Failure information / RLC failure / SCG / EN-				
	DC				
8.2.6.2	Processing delay				
8.2.6.2.1	Processing delay / PSCell addition / SCG	Rel-15	C01	UEs supporting EN-DC	
	DRB / Success / Latency check / EN-DC	1/61-13			

Table 4.1-3b: Additional Information of Applicability of Protocol conformance RRC test cases, ref. TS 38.523-1 [2]

Clause	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
8.1.1				
8.1.1.3				
8.1.1.3.2				Rel-15 E-UTRA
8.1.1.3.4				Rel-15 E-UTRA
8.1.1.3.6				Rel-15 E-UTRA
8.1.3				
8.1.3.1				
8.1.3.1.2				
8.1.3.1.3			If 8.1.3.1.2 is executed this test case is optional (Note 2)	
8.1.3.1.4			If 8.1.3.1.2 or 8.1.3.1.3 is executed this test case is optional (Note 2)	
8.1.3.1.5			If 8.1.3.1.6 is executed this test case is optional (Note 2)	
8.1.3.1.6				
8.1.3.1.7			If 8.1.3.1.5 or 8.1.3.1.6 is executed this test	

Clause	Specific ICS	Specific IXIT	Number of TC Executions	Release other RAT
			case is optional (Note 2)	
8.1.3.1.8			If 8.1.3.1.9 or 8.1.3.1.10	
			is executed this test	
			case is optional (Note 2)	
8.1.3.1.9			If 8.1.3.1.10 is executed	
			this test case is optional	
			(Note 2)	
8.1.3.1.10				
8.1.4				
8.1.4.2				
8.1.4.2.1				
8.1.4.2.1.1				Rel-15 E-UTRA
8.1.4.2.1.2				Rel-15 E-UTRA
8.1.4.2.2				
8.1.4.2.2.1				Rel-15 E-UTRA
8.1.4.2.2.2				Rel-15 E-UTRA
8.2.1				
8.2.2				
8.2.2.1				
8.2.2.1.1			Only executed if test	
			case 8.2.2.3.1 is not	
			applicable (Note 1)	
8.2.3			777	
8.2.3.6				
8.2.3.6.1				
8.2.3.6.1a			If 8.2.3.6.1 is executed	
			this test case is optional	
			(Note 3)	
8.2.3.6.1b			If 8.2.3.6.1 or 8.2.3.6.1a	
			is executed this test	
			case is optional (Note 3)	
8.2.3.7				
8.2.3.7.1				
8.2.3.7.1a			If 8.2.3.7.1 is executed	
			this test case is optional	
			(Note 3)	
8.2.3.7.1b			If 8.2.3.7.1 or 8.2.3.7.1a	
			is executed this test	
			case is optional (Note 3)	
8.2.3.8				
8.2.3.8.1				
8.2.3.8.1a			If 8.2.3.8.1 is executed	
			this test case is optional	
			(Note 3)	
8.2.3.8.1b			If 8.2.3.8.1 or 8.2.3.8.1a	
			is executed this test	
			case is optional (Note 3)	
Note 1: Test c	0 0 0 0 1 . 1	the core requirements o	overed by test case 8.2.2.1.1 k	ut it in not applicable to all

making sure all three variants are tested at least once across measurement events A3/A4/A5.

Only intra frequency among the three (intra-frequency, inter-frequency and inter-band) variants is required to be executed for measurement events A3/A4/A5 based on initial market requirements. May change in future similar to Note 3: Note 2.

Table 4.1-4a: Applicability of Protocol conformance Mobility and Session management test cases, ref. TS 38.523-1 [2]

Clause	e TC Title Release		Applicability	
			Condition	Comment
9	Mobility management			
9.1	5GS mobility management			
9.1.1	Primary authentication and key agreement	D 145	001	. 50.0
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
	NAS integrity algorithm / SNOW3G			
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update	1101 = 0		
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	allowed Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update			
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core

Clause			Applicability	
0	Mobility management		Condition	Comment
9 9.1	Mobility management 5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	5G AKA based primary authentication and key agreement / 5G-AKA related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	5G AKA based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4 9.1.4.1	Generic UE configuration update Generic UE configuration update / New 5G-GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration	Dal 15	C21	LIFE avaparting FC Care
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.3 9.1.5.1.3a	handling Initial registration / 5GS services / NSSAI Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
3.1.3.1.3a	handling / NSSAI Storage	I IVEI-13	021	OLS Supporting 3G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update	Dol 15	021	LIES SUPPORTING EC CORO
9.1.5.2.1 9.1.5.2.2	Mobility registration update / TAI list handling Periodic registration update / Accepted	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.2.2	Mobility registration update / Accepted Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core
0.1.0.2.4	mosmity regionation appared into tower layer	1.0113	021	See supporting 50 core

Clause TC Title Release			Applicability	
			Condition	Comment
9	Mobility management			
9.1	5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Abnormal	IVEI-13	CZI	OLS Supporting 3G Core
9.1.2 9.1.2.1	Security mode control	Dol 15	C21	LIFe cupporting EC Core
9.1.2.1	NAS security mode command	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core
	Protection of initial NAS signalling messages			UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update			
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core

TC Title	Release		Applicability
N-1-11-		Condition	Comment
Primary authentication and key agreement			
FAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	110110	021	OLS supporting SO Core
EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	Rel-15	C21	UEs supporting 5G Core
	Rel-15	C21	UEs supporting 5G Core
agreement / 5G-AKA related procedures			
5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	Rel-15	C21	UEs supporting 5G Core
	Rel-15	C21	UEs supporting 5G Core
			UEs supporting 5G Core
			UEs supporting 5G Core
NAS integrity algorithm / SNOW3G			
Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
NAS integrity algorithm / AES	<u> </u>		
Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
	D-145	001	LIE- companies FO Ocas
	Kel-15	C21	UEs supporting 5G Core
	Pol-15	C21	UEs supporting 5G Core
	IXCI 13	021	OLS supporting SO Core
Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
functionality of 5G NAS encryption algorithm /			
	Rel-15	C21	UEs supporting 5G Core
	D 145	001	
	Rel-15	C21	UEs supporting 5G Core
Initial registration			
Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core
reallocation, Last visited TAI			
Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core
<u> </u>			
	Rel-15	C21	UEs supporting 5G Core
	Dal-15	C21	UEs supporting 5G Core
	Kel-13	C21	OES Supporting 30 Core
5 5	Rel-15	C21	UEs supporting 5G Core
		C21	UEs supporting 5G Core
attempts			
Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
Void	Rel-15	C21	UEs supporting 5G Core
Initial registration / Rejected / Serving network	Rel-15	C21	UEs supporting 5G Core
not authorized	<u> </u>		
1 -	Rel-15	C21	UEs supporting 5G Core
	Del 15	001	LIFe supporting EC Core
	Kel-15	C21	UEs supporting 5G Core
	Rel-15	C21	UEs supporting 5G Core
allowed	1.0.15	021	S appointing 55 core
Initial registration / Rejected / Roaming not	Rel-15	C21	UEs supporting 5G Core
allowed in this tracking area		001	UEs supporting 5G Core
allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15	C21	OES Supporting 3G Core
Initial registration / Rejected / No suitable cells in tracking area			
Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion /	Rel-15 Rel-15	C21	UEs supporting 5G Core
Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346			
Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core
Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core
	agreement / Reject EAP based primary authentication and key agreement / EAP message transport / Abnormal 5G AKA based primary authentication and key agreement / 5G-AKA related procedures 5G AKA based primary authentication and key agreement / Reject 5G AKA based primary authentication and key agreement / Reject 5G AKA based primary authentication and key agreement / Abnormal Security mode control NAS security mode command Protection of initial NAS signalling messages Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm	Primary authentication and key agreement Primary authentication and key agreement EAP based primary authentication and key agreement / EAP-AKA' related procedures EAP based primary authentication and key agreement / Reject EAP based primary authentication and key agreement / Reject EAP based primary authentication and key agreement / EAP message transport / Abnormal SG AKA based primary authentication and key agreement / SG-AKA related procedures SG AKA based primary authentication and key agreement / Reject SG AKA based primary authentication and key agreement / Reject SG AKA based primary authentication and key agreement / Abnormal Rel-15 SG AKA based primary authentication and key agreement / Abnormal Rel-15 SG AKA based primary authentication and key agreement / Abnormal Rel-15 SG AKA based primary authentication and key agreement / Abnormal Rel-15 SG AKA based primary authentication and key agreement / Abnormal Rel-15 SG AKA based primary authentication and key agreement / SG AKA based primary authentication and key agreement / SG AKA based primary authentication and key agreement / SG Rel-15 Rel-15	Mobility management SGS mobility management Frimary authentication and key agreement EAP based primary authentication and key agreement / EAP-BAK related procedures EAP based primary authentication and key agreement / FAP-AKA related procedures EAP based primary authentication and key agreement / FAP-BAKA related procedures C21 agreement / FAP-BAKA related procedures SG AKA based primary authentication and key agreement / SG-AKA related procedures SG AKA based primary authentication and key agreement / SG-AKA related procedures SG AKA based primary authentication and key agreement / Fapicat SG AKA based primary authentication and key agreement / Abnormal SECUTION SECUTI

Clause	TC Title	Release		Applicability
0	Mobility management		Condition	Comment
9 9.1	Mobility management 5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	5G AKA based primary authentication and key agreement / 5G-AKA related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	5G AKA based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4 9.1.4.1	Generic UE configuration update Generic UE configuration update / New 5G-GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration	Dal 15	C21	LIFE avaparting FC Care
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.3 9.1.5.1.3a	handling Initial registration / 5GS services / NSSAI Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
3.1.3.1.3a	handling / NSSAI Storage	I IVEI-13	021	OLS Supporting 3G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update	Dol 15	C21	LIES SUPPORTING EC CORO
9.1.5.2.1 9.1.5.2.2	Mobility registration update / TAI list handling Periodic registration update / Accepted	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.2.2	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core
0.1.0.2.4		1.0.10	021	2 = 5 supporting 50 solid

Clause	TC Title	Release		Applicability
0	Mobility management		Condition	Comment
9 9.1	Mobility management 5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	5G AKA based primary authentication and key agreement / 5G-AKA related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	5G AKA based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4 9.1.4.1	Generic UE configuration update Generic UE configuration update / New 5G-GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration	Dal 15	C21	LIFE avaparting FC Care
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.3 9.1.5.1.3a	handling Initial registration / 5GS services / NSSAI Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
3.1.3.1.3a	handling / NSSAI Storage	I IVEI-13	021	OLS Supporting 3G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update	Dol 15	C21	LIES SUPPORTING EC CORO
9.1.5.2.1 9.1.5.2.2	Mobility registration update / TAI list handling Periodic registration update / Accepted	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.2.2	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core
0.1.0.2.4		1.0.10	021	2 = 5 supporting 50 solid

Clause	TC Title	Release	Applicability		
			Condition	Comment	
9	Mobility management				
9.1	5GS mobility management				
9.1.1	Primary authentication and key agreement				
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core	
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core	
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core	
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
	agreement / Abnormal	IVEI-13	CZI	OLS Supporting 3G Core	
9.1.2 9.1.2.1	Security mode control	Dol 15	C21	LIFe supporting EC Core	
9.1.2.1	NAS security mode command	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core	
	Protection of initial NAS signalling messages			UEs supporting 5G Core	
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.3	Identification				
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core	
9.1.4	Generic UE configuration update				
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5	Registration				
9.1.5.1	Initial registration				
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2	Mobility and periodic registration update				
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core	

Clause	TC Title	Release	Applicability		
			Condition	Comment	
9	Mobility management				
9.1	5GS mobility management				
9.1.1	Primary authentication and key agreement				
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core	
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core	
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core	
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
	agreement / Abnormal	IVEI-13	CZI	OLS Supporting 3G Core	
9.1.2 9.1.2.1	Security mode control	Dol 15	C21	LIFe supporting EC Core	
9.1.2.1	NAS security mode command	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core	
	Protection of initial NAS signalling messages			UEs supporting 5G Core	
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.3	Identification				
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core	
9.1.4	Generic UE configuration update				
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5	Registration				
9.1.5.1	Initial registration				
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2	Mobility and periodic registration update				
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core	

Clause	TC Title	Release		Applicability
			Condition	Comment
9 9.1	Mobility management			
9.1.1	5GS mobility management Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.1	agreement / EAP-AKA' related procedures	1101 10	021	o Lo supporting Co Soils
9.1.1.2	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Reject			
9.1.1.3	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / EAP message transport / Abnormal			
9.1.1.4	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / 5G-AKA related procedures			3
9.1.1.5	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.0	agreement / Reject	D-145	001	LIFE CONTRACTOR FOR CONTRACTOR OF CONTRACTOR
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
	NAS integrity algorithm / SNOW3G			
9.1.2.4	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	NAS integrity algorithm / AES Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
J.1.2.3	NAS integrity algorithm / ZUC	VGI-T2	C21	OLS Supporting SO Core and 200 algorithm
9.1.2.6	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /	1101 = 0		
	SNOW3G			
9.1.2.7	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /			
9.1.2.8	AES Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.0	functionality of 5G NAS encryption algorithm /	Kel-13	C21	OES supporting 30 core and 200 algorithm
	ZUC			
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G-	Rel-15	C21	UEs supporting 5G Core
	GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI /			
	acknowledgement from the UE			
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core
	reallocation, Last visited TAI			
9.1.5.1.2	Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core
01510	PLMN list handling	Dal 15	621	LIFE COMPANY FOR COMP
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
0.1.0.1.0a	handling / NSSAI Storage	1101 10	021	OLG Supporting GC Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5	Rel-15	C21	UEs supporting 5G Core
	attempts			., -
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not	Rel-15 Rel-15 Rel-15	C21 C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5. 2 9.1.5.2.1	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release		Applicability
0	Mobility management		Condition	Comment
9 9.1	Mobility management 5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	5G AKA based primary authentication and key agreement / 5G-AKA related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	5G AKA based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4 9.1.4.1	Generic UE configuration update Generic UE configuration update / New 5G-GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration	Dal 15	C21	LIFE avaparting FC Care
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.3 9.1.5.1.3a	handling Initial registration / 5GS services / NSSAI Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
3.1.3.1.3a	handling / NSSAI Storage	I IVEI-13	021	OLS Supporting 3G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update	Dol 15	C21	LIES SUPPORTING EC CORO
9.1.5.2.1 9.1.5.2.2	Mobility registration update / TAI list handling Periodic registration update / Accepted	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.2.2	Mobility registration update / Accepted Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core
0.1.0.2.4		1.0.10	021	2 = 5 supporting 50 solid

Clause	TC Title	Release		Applicability
			Condition	Comment
9 9.1	Mobility management			
9.1.1	5GS mobility management Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.1	agreement / EAP-AKA' related procedures	1101 10	021	o Lo supporting Co Soils
9.1.1.2	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Reject			
9.1.1.3	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / EAP message transport / Abnormal			
9.1.1.4	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / 5G-AKA related procedures			3
9.1.1.5	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.0	agreement / Reject	D-145	001	LIFE CONTRACTOR FOR CONTRACTOR OF CONTRACTOR
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
	NAS integrity algorithm / SNOW3G			
9.1.2.4	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	NAS integrity algorithm / AES Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
J.1.2.3	NAS integrity algorithm / ZUC	VGI-T2	C21	OLS Supporting SO Core and 200 algorithm
9.1.2.6	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /	1101 = 0		
	SNOW3G			
9.1.2.7	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /			
9.1.2.8	AES Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.0	functionality of 5G NAS encryption algorithm /	Kel-13	C21	OES supporting 30 core and 200 algorithm
	ZUC			
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G-	Rel-15	C21	UEs supporting 5G Core
	GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI /			
	acknowledgement from the UE			
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core
	reallocation, Last visited TAI			
9.1.5.1.2	Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core
01510	PLMN list handling	Dal 15	621	LIFE COMPANY FOR COMP
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
0.1.0.1.0a	handling / NSSAI Storage	1101 10	021	OLG Supporting GC Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5	Rel-15	C21	UEs supporting 5G Core
	attempts			., -
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not	Rel-15 Rel-15 Rel-15	C21 C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5. 2 9.1.5.2.1	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release		Applicability
0	Mobility management		Condition	Comment
9 9.1	Mobility management 5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	5G AKA based primary authentication and key agreement / 5G-AKA related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	5G AKA based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4 9.1.4.1	Generic UE configuration update Generic UE configuration update / New 5G-GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration	Dal 15	C21	LIFE avaparting FC Care
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.3 9.1.5.1.3a	handling Initial registration / 5GS services / NSSAI Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
3.1.3.1.3a	handling / NSSAI Storage	I IVEI-13	021	OLS Supporting 3G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update	Dol 15	C21	LIES SUPPORTING EC CORO
9.1.5.2.1 9.1.5.2.2	Mobility registration update / TAI list handling Periodic registration update / Accepted	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.2.2	Mobility registration update / Accepted Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core
0.1.0.2.4		1.0.10	021	2 = 5 supporting 50 solid

Clause	TC Title	Release		Applicability
0	Mobility management		Condition	Comment
9 9.1	Mobility management 5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	5G AKA based primary authentication and key agreement / 5G-AKA related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	5G AKA based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4 9.1.4.1	Generic UE configuration update Generic UE configuration update / New 5G-GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration	Dal 15	C21	LIFE avaparting FC Care
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.3 9.1.5.1.3a	handling Initial registration / 5GS services / NSSAI Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
3.1.3.1.3a	handling / NSSAI Storage	I IVEI-13	021	OLS Supporting 3G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update	Dol 15	C21	LIES SUPPORTING EC CORO
9.1.5.2.1 9.1.5.2.2	Mobility registration update / TAI list handling Periodic registration update / Accepted	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.2.2	Mobility registration update / Accepted Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core
0.1.0.2.4		1.0.10	021	2 = 5 supporting 50 solid

Clause	TC Title	Release		Applicability
0	Mobility management		Condition	Comment
9 9.1	Mobility management 5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
V-1	agreement / EAP-AKA' related procedures		022	
9.1.1.2	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Reject			
9.1.1.3	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / EAP message transport / Abnormal			
9.1.1.4	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / 5G-AKA related procedures	1101 = 0		
9.1.1.5	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.0	agreement / Reject	D 145	001	. 50.0
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
	NAS integrity algorithm / SNOW3G			
9.1.2.4	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
0125	NAS integrity algorithm / AES	Del 15	024	LIFe cumperting EC Core and 7110 strength
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
J.1.L.V	functionality of 5G NAS encryption algorithm /	1.01.13	021	S as supporting 50 0010
	SNOW3G			
9.1.2.7	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /			
0.1.0.0	AES	D-145	001	LIE- companies 50 Occasion 4 7110 chanish as
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm /	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
	ZUC			
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G-	Rel-15	C21	UEs supporting 5G Core
	GUTI, NITZ, registration requested, Network			
	slicing indication, New Allowed NSSAI / acknowledgement from the UE			
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core
	reallocation, Last visited TAI			
9.1.5.1.2	Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core
01512	PLMN list handling	Dol 15	C21	LIFe curporting EC Core
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
	handling / NSSAI Storage			and an area of the state of the
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5	Rel-15	C21	UEs supporting 5G Core
04511	attempts	<u> </u>		
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7 9.1.5.1.8	Void	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
a.T.2.T.Q	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	OES Supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell	Rel-15	C21	UEs supporting 5G Core
	into a new tracking area			
9.1.5.1.10	Initial registration / Rejected / PLMN not	Rel-15	C21	UEs supporting 5G Core
	allowed			
9.1.5.1.11	Initial registration / Rejected / Tracking area not	Rel-15	C21	UEs supporting 5G Core
015110	allowed	Del 15	001	LIFe cumperting EC Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells	Rel-15	C21	UEs supporting 5G Core
J.1.J.1.1J	in tracking area	1,0113	021	OLO Supporting SO Core
9.1.5.1.14	Initial registration / Rejected / Congestion /	Rel-15	C21	UEs supporting 5G Core
	Abnormal cases / T3346			
9.1.5.2	Mobility and periodic registration update			
	IN A philips, we exist until a supplier a / TA Liet be realised	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.1	Mobility registration update / TAI list handling	+		
	Periodic registration update / Accepted Mobility registration update / TAI list riandling Periodic registration update / Accepted Mobility registration update / The lower layer	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core

Clause	TC Title	Release		Applicability
			Condition	Comment
9	Mobility management			
9.1	5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Abnormal	IVEI-13	CZI	OLS Supporting 3G Core
9.1.2 9.1.2.1	Security mode control	Dol 15	C21	LIFe cupporting EC Core
9.1.2.1	NAS security mode command	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core
	Protection of initial NAS signalling messages			UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update			
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release		Applicability
			Condition	Comment
9	Mobility management			
9.1	5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Abnormal	IVEI-13	CZI	OLS Supporting 3G Core
9.1.2 9.1.2.1	Security mode control	Dol 15	C21	LIFe cupporting EC Core
9.1.2.1	NAS security mode command	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core
	Protection of initial NAS signalling messages			UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update			
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release		Applicability
			Condition	Comment
9 9.1	Mobility management			
9.1.1	5GS mobility management Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.1	agreement / EAP-AKA' related procedures	1101 10	021	o Lo supporting Co Soils
9.1.1.2	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Reject			
9.1.1.3	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / EAP message transport / Abnormal			
9.1.1.4	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / 5G-AKA related procedures			3
9.1.1.5	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.0	agreement / Reject	D-145	001	LIE
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
	NAS integrity algorithm / SNOW3G			
9.1.2.4	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	NAS integrity algorithm / AES Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
J.1.2.3	NAS integrity algorithm / ZUC	VGI-T2	C21	OLS Supporting SO Core and 200 algorithm
9.1.2.6	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /	1101 = 0		
	SNOW3G			
9.1.2.7	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /			
9.1.2.8	AES Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.0	functionality of 5G NAS encryption algorithm /	Kel-13	C21	OES supporting 30 core and 200 algorithm
	ZUC			
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G-	Rel-15	C21	UEs supporting 5G Core
	GUTI, NITZ, registration requested, Network			
	slicing indication, New Allowed NSSAI / acknowledgement from the UE			
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core
	reallocation, Last visited TAI			., -
9.1.5.1.2	Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core
01510	PLMN list handling	D-145	001	UE
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
0.1.0.1.0a	handling / NSSAI Storage	1101 10	021	OLS Supporting CC Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5	Rel-15	C21	UEs supporting 5G Core
	attempts			UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not	Rel-15 Rel-15 Rel-15	C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5. 2 9.1.5.2.1	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release		Applicability
			Condition	Comment
9	Mobility management			
9.1	5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Abnormal	IVEI-13	CZI	OLS Supporting 3G Core
9.1.2 9.1.2.1	Security mode control	Dol 15	C21	LIFe cupporting EC Core
9.1.2.1	NAS security mode command	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core
	Protection of initial NAS signalling messages			UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update			
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release		Applicability
			Condition	Comment
9 9.1	Mobility management			
9.1.1	5GS mobility management Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.1	agreement / EAP-AKA' related procedures	1101 10	021	o Lo supporting Co Soils
9.1.1.2	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Reject			
9.1.1.3	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / EAP message transport / Abnormal			
9.1.1.4	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / 5G-AKA related procedures			3
9.1.1.5	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.0	agreement / Reject	D-145	001	LIFE CONTRACTOR FOR CONTRACTOR OF CONTRACTOR
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
	NAS integrity algorithm / SNOW3G			
9.1.2.4	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	NAS integrity algorithm / AES Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
J.1.2.3	NAS integrity algorithm / ZUC	VGI-T2	C21	OLS Supporting SO Core and 200 algorithm
9.1.2.6	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /	1101 = 0		
	SNOW3G			
9.1.2.7	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /			
9.1.2.8	AES Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.0	functionality of 5G NAS encryption algorithm /	Kel-13	C21	OES supporting 30 core and 200 algorithm
	ZUC			
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G-	Rel-15	C21	UEs supporting 5G Core
	GUTI, NITZ, registration requested, Network			
	slicing indication, New Allowed NSSAI / acknowledgement from the UE			
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core
	reallocation, Last visited TAI			., -
9.1.5.1.2	Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core
01510	PLMN list handling	D-145	001	UE
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
0.1.0.1.0a	handling / NSSAI Storage	1101 10	021	OLS Supporting CC Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5	Rel-15	C21	UEs supporting 5G Core
	attempts			UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not	Rel-15 Rel-15 Rel-15	C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5. 2 9.1.5.2.1	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release		Applicability
			Condition	Comment
9	Mobility management			
9.1	5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Abnormal	IVEI-13	CZI	OLS Supporting 3G Core
9.1.2 9.1.2.1	Security mode control	Dol 15	C21	LIFe cupporting EC Core
9.1.2.1	NAS security mode command	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core
	Protection of initial NAS signalling messages			UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update			
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release		Applicability
			Condition	Comment
9	Mobility management			
9.1 9.1.1	5GS mobility management Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / EAP-AKA' related procedures			1, 3
9.1.1.2	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.0	agreement / Reject	Del 15	621	LIFE COMPANIES FOR COMP
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core
	Abnormal			
9.1.1.4	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / 5G-AKA related procedures			
9.1.1.5	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.0	agreement / Abnormal	1101 10	021	oza supporting de core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
	NAS integrity algorithm / AES			
9.1.2.5	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
0.1.0.0	NAS integrity algorithm / ZUC	5.145	004	
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm /	Rel-15	C21	UEs supporting 5G Core
	SNOW3G			
9.1.2.7	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /			
	AES			
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm /	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
	ZUC			
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G-	Rel-15	C21	UEs supporting 5G Core
	GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI /			
	acknowledgement from the UE			
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	reallocation, Last visited TAI Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	PLMN list handling	1/61-13	CZI	OLS Supporting 3G Core
9.1.5.1.3	Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
	handling			
9.1.5.1.3a	Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.4	handling / NSSAI Storage Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5	Rel-15	C21	UEs supporting 5G Core
0.2.0.2.0	attempts		0	o as supporting to cont
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
		Rel-15	C21	UEs supporting 5G Core
91510	Inilial registration / Annormal / Channe of cer		. 021	ISEC CONTROL OF COLC
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	110110		a capparanty or cont
9.1.5.1.9 9.1.5.1.10	into a new tracking area Initial registration / Rejected / PLMN not	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	into a new tracking area Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
	into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not			
9.1.5.1.10 9.1.5.1.11	into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed	Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.10	into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10 9.1.5.1.11	into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed	Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13	into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.10 9.1.5.1.11 9.1.5.1.12	into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion /	Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14	into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2 9.1.5.2.1	into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update Mobility registration update / TAI list handling	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14	into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core

Clause	TC Title	Release		Applicability
			Condition	Comment
9 9.1	Mobility management			
9.1.1	5GS mobility management Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.1	agreement / EAP-AKA' related procedures	1101 10	021	o Lo supporting Co Soils
9.1.1.2	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Reject			
9.1.1.3	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / EAP message transport / Abnormal			
9.1.1.4	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / 5G-AKA related procedures			3
9.1.1.5	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.0	agreement / Reject	D-145	001	LIFE CONTRACTOR FOR CONTRACTOR OF CONTRACTOR
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
	NAS integrity algorithm / SNOW3G			
9.1.2.4	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	NAS integrity algorithm / AES Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
J.1.2.3	NAS integrity algorithm / ZUC	VGI-T2	C21	OLS Supporting SO Core and 200 algorithm
9.1.2.6	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /	1101 = 0		
	SNOW3G			
9.1.2.7	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /			
9.1.2.8	AES Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.0	functionality of 5G NAS encryption algorithm /	Kel-13	C21	OES supporting 30 core and 200 algorithm
	ZUC			
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G-	Rel-15	C21	UEs supporting 5G Core
	GUTI, NITZ, registration requested, Network			
	slicing indication, New Allowed NSSAI / acknowledgement from the UE			
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core
	reallocation, Last visited TAI			., -
9.1.5.1.2	Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core
01510	PLMN list handling	D-145	001	UE
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
0.1.0.1.0a	handling / NSSAI Storage	1101 10	021	OLG Supporting GC Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5	Rel-15	C21	UEs supporting 5G Core
	attempts			UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not	Rel-15 Rel-15 Rel-15	C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5. 2 9.1.5.2.1	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release		Applicability
			Condition	Comment
9 9.1	Mobility management			
9.1.1	5GS mobility management Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.1	agreement / EAP-AKA' related procedures	1101 10	021	o Lo supporting Co Soils
9.1.1.2	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Reject			
9.1.1.3	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / EAP message transport / Abnormal			
9.1.1.4	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / 5G-AKA related procedures			3
9.1.1.5	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.0	agreement / Reject	D-145	001	LIFE CONTRACTOR FOR CONTRACTOR OF CONTRACTOR
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
	NAS integrity algorithm / SNOW3G			
9.1.2.4	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	NAS integrity algorithm / AES Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
J.1.2.3	NAS integrity algorithm / ZUC	VGI-T2	C21	OLS Supporting SO Core and 200 algorithm
9.1.2.6	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /	1101 = 0		
	SNOW3G			
9.1.2.7	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /			
9.1.2.8	AES Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.0	functionality of 5G NAS encryption algorithm /	Kel-13	C21	OES supporting 30 core and 200 algorithm
	ZUC			
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G-	Rel-15	C21	UEs supporting 5G Core
	GUTI, NITZ, registration requested, Network			
	slicing indication, New Allowed NSSAI / acknowledgement from the UE			
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core
	reallocation, Last visited TAI			., -
9.1.5.1.2	Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core
01510	PLMN list handling	D-145	001	UE
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
0.1.0.1.0a	handling / NSSAI Storage	1101 10	021	OLG Supporting GC Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5	Rel-15	C21	UEs supporting 5G Core
	attempts			UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not	Rel-15 Rel-15 Rel-15	C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5. 2 9.1.5.2.1	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release		Applicability
0	Mobility management		Condition	Comment
9 9.1	Mobility management 5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	5G AKA based primary authentication and key agreement / 5G-AKA related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	5G AKA based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4 9.1.4.1	Generic UE configuration update Generic UE configuration update / New 5G-GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration	Dal 15	C21	LIFE avaparting FC Care
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.3 9.1.5.1.3a	handling Initial registration / 5GS services / NSSAI Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
3.1.3.1.3a	handling / NSSAI Storage	I IVEI-13	021	OLS Supporting 3G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update	Dol 15	021	LIES SUPPORTING EC CORO
9.1.5.2.1 9.1.5.2.2	Mobility registration update / TAI list handling Periodic registration update / Accepted	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.2.2	Mobility registration update / Accepted Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core
0.1.0.2.4	mosmity regionation appare / The lower layer	1.0113	021	See supporting 50 core

Clause	TC Title	Release		Applicability
			Condition	Comment
9	Mobility management			
9.1	5GS mobility management			
9.1.1	Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Abnormal	IVEI-13	CZI	OLS Supporting 3G Core
9.1.2 9.1.2.1	Security mode control	Dol 15	C21	LIFe cupporting EC Core
9.1.2.1	NAS security mode command	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core
	Protection of initial NAS signalling messages			UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core
9.1.5.2	Mobility and periodic registration update			
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release		Applicability
			Condition	Comment
9 9.1	Mobility management			
9.1.1	5GS mobility management Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.1	agreement / EAP-AKA' related procedures	1101 10	021	o Lo supporting Co Soils
9.1.1.2	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Reject			
9.1.1.3	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / EAP message transport / Abnormal			
9.1.1.4	5G AKA based primary authentication and key	Rel-15	C21 UEs supporting 5G Core	
	agreement / 5G-AKA related procedures			3
9.1.1.5	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.0	agreement / Reject	D-145	001	LIFE CONTRACTOR FOR CONTRACTOR OF CONTRACTOR
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
	NAS integrity algorithm / SNOW3G			
9.1.2.4	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	NAS integrity algorithm / AES Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
J.1.2.3	NAS integrity algorithm / ZUC	VGI-T2	C21	OLS Supporting SO Core and 200 algorithm
9.1.2.6	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /	1101 = 0		
	SNOW3G			
9.1.2.7	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /			
9.1.2.8	AES Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.0	functionality of 5G NAS encryption algorithm /	Kel-13	C21	OES supporting 30 core and 200 algorithm
	ZUC			
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G-	Rel-15	C21	UEs supporting 5G Core
	GUTI, NITZ, registration requested, Network			
	slicing indication, New Allowed NSSAI / acknowledgement from the UE			
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core
	reallocation, Last visited TAI			., -
9.1.5.1.2	Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core
01510	PLMN list handling	D-145	001	UE
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
0.1.0.1.0a	handling / NSSAI Storage	1101 10	021	OLS Supporting CC Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5	Rel-15	C21	UEs supporting 5G Core
	attempts			UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not	Rel-15 Rel-15 Rel-15	C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5. 2 9.1.5.2.1	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release	Release Applicability		
			Condition	Comment	
9	Mobility management				
9.1	5GS mobility management				
9.1.1	Primary authentication and key agreement				
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core	
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core	
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core	
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21 UEs supporting 5G Core		
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
	agreement / Abnormal	IVEI-13	CZI	OLS Supporting 3G Core	
9.1.2 9.1.2.1	Security mode control	Dol 15	C21	LIFe cupporting EC Core	
9.1.2.1	NAS security mode command	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core	
	Protection of initial NAS signalling messages			UEs supporting 5G Core	
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.3	Identification				
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core	
9.1.4	Generic UE configuration update				
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5	Registration				
9.1.5.1	Initial registration				
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2	Mobility and periodic registration update				
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core	

Clause	TC Title Release		Applicability		
0	Mobility management		Condition	Comment	
9 9.1	Mobility management 5GS mobility management				
9.1.1	Primary authentication and key agreement				
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core	
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core	
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport / Abnormal	Rel-15	C21	UEs supporting 5G Core	
9.1.1.4	5G AKA based primary authentication and key agreement / 5G-AKA related procedures	Rel-15	C21	UEs supporting 5G Core	
9.1.1.5	5G AKA based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core	
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core	
9.1.2	Security mode control				
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core	
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core	
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.3	Identification				
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core	
9.1.4 9.1.4.1	Generic UE configuration update Generic UE configuration update / New 5G-GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5	Registration				
9.1.5.1	Initial registration	Dal 15	C21	LIFE avaparting FC Care	
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core	
9.1.5.1.3 9.1.5.1.3a	handling Initial registration / 5GS services / NSSAI Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core	
3.1.3.1.3a	handling / NSSAI Storage	I IVEI-13	021	OLS Supporting 3G Core	
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2	Mobility and periodic registration update	Dol 15	021	LIES SUPPORTING EC CORO	
9.1.5.2.1 9.1.5.2.2	Mobility registration update / TAI list handling Periodic registration update / Accepted	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core	
9.1.5.2.2	Mobility registration update / Accepted Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core	
0.1.0.2.4	mosmity regionation appare / The lower layer	1.0113	021	See supporting 50 core	

Clause	TC Title	Release	Release Applicability		
			Condition	Comment	
9	Mobility management				
9.1	5GS mobility management				
9.1.1	Primary authentication and key agreement				
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core	
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core	
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core	
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21 UEs supporting 5G Core		
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
	agreement / Abnormal	IVEI-13	CZI	OLS Supporting 3G Core	
9.1.2 9.1.2.1	Security mode control	Dol 15	C21	LIFe cupporting EC Core	
9.1.2.1	NAS security mode command	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core	
	Protection of initial NAS signalling messages			UEs supporting 5G Core	
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.3	Identification				
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core	
9.1.4	Generic UE configuration update				
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5	Registration				
9.1.5.1	Initial registration				
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2	Mobility and periodic registration update				
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core	

Clause	TC Title	Release	Release Applicability		
			Condition	Comment	
9	Mobility management				
9.1	5GS mobility management				
9.1.1	Primary authentication and key agreement				
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core	
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core	
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core	
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21 UEs supporting 5G Core		
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
	agreement / Abnormal	IVEI-13	CZI	OLS Supporting 3G Core	
9.1.2 9.1.2.1	Security mode control	Dol 15	C21	LIFe cupporting EC Core	
9.1.2.1	NAS security mode command	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core	
	Protection of initial NAS signalling messages			UEs supporting 5G Core	
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.3	Identification				
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core	
9.1.4	Generic UE configuration update				
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5	Registration				
9.1.5.1	Initial registration				
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2	Mobility and periodic registration update				
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core	

Clause	TC Title	Release		Applicability
			Condition	Comment
9 9.1	Mobility management			
9.1.1	5GS mobility management Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.1	agreement / EAP-AKA' related procedures	1101 10	021	o Lo supporting Co Soils
9.1.1.2	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Reject			
9.1.1.3	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / EAP message transport / Abnormal			
9.1.1.4	5G AKA based primary authentication and key	Rel-15	C21 UEs supporting 5G Core	
	agreement / 5G-AKA related procedures			3
9.1.1.5	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.0	agreement / Reject	D-145	001	LIFE CONTRACTOR FOR CONTRACTOR OF CONTRACTOR
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
	NAS integrity algorithm / SNOW3G			
9.1.2.4	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	NAS integrity algorithm / AES Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
J.1.2.3	NAS integrity algorithm / ZUC	VGI-T2	C21	OLS Supporting SO Core and 200 algorithm
9.1.2.6	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /	1101 = 0		
	SNOW3G			
9.1.2.7	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /			
9.1.2.8	AES Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.0	functionality of 5G NAS encryption algorithm /	Kel-13	C21	OES supporting 30 core and 200 algorithm
	ZUC			
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G-	Rel-15	C21	UEs supporting 5G Core
	GUTI, NITZ, registration requested, Network			
	slicing indication, New Allowed NSSAI / acknowledgement from the UE			
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core
	reallocation, Last visited TAI			., -
9.1.5.1.2	Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core
01510	PLMN list handling	D-145	001	UE
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
0.1.0.1.0a	handling / NSSAI Storage	1101 10	021	OLS Supporting CC Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5	Rel-15	C21	UEs supporting 5G Core
	attempts			UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not	Rel-15 Rel-15 Rel-15	C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5. 2 9.1.5.2.1	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title	Release	Release Applicability		
			Condition	Comment	
9	Mobility management				
9.1	5GS mobility management				
9.1.1	Primary authentication and key agreement				
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core	
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core	
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport /	Rel-15	C21	UEs supporting 5G Core	
9.1.1.4	Abnormal 5G AKA based primary authentication and key	Rel-15	C21 UEs supporting 5G Core		
9.1.1.5	agreement / 5G-AKA related procedures 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
9.1.1.6	agreement / Reject 5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
	agreement / Abnormal	IVEI-13	CZI	OLS Supporting 3G Core	
9.1.2 9.1.2.1	Security mode control	Dol 15	C21	LIFe cupporting EC Core	
9.1.2.1	NAS security mode command	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core	
	Protection of initial NAS signalling messages			UEs supporting 5G Core	
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.3	Identification				
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core	
9.1.4	Generic UE configuration update				
9.1.4.1	Generic UE configuration update / New 5G- GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5	Registration				
9.1.5.1	Initial registration				
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.3a	Initial registration / 5GS services / NSSAI handling / NSSAI Storage	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2	Mobility and periodic registration update				
9.1.5.2.1	Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2.2	Periodic registration update / Accepted	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2.4	Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core	

Clause	TC Title Release		Applicability		
0	Mobility management		Condition	Comment	
9 9.1	Mobility management 5GS mobility management				
9.1.1	Primary authentication and key agreement				
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core	
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core	
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport / Abnormal	Rel-15	C21	UEs supporting 5G Core	
9.1.1.4	5G AKA based primary authentication and key agreement / 5G-AKA related procedures	Rel-15	C21	UEs supporting 5G Core	
9.1.1.5	5G AKA based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core	
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core	
9.1.2	Security mode control				
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core	
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core	
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.3	Identification				
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core	
9.1.4 9.1.4.1	Generic UE configuration update Generic UE configuration update / New 5G-GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5	Registration				
9.1.5.1	Initial registration	Dal 15	C21	LIFE avaparting FC Care	
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core	
9.1.5.1.3 9.1.5.1.3a	handling Initial registration / 5GS services / NSSAI Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core	
3.1.3.1.3a	handling / NSSAI Storage	I IVEI-13	021	OLS Supporting 3G Core	
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2	Mobility and periodic registration update	Dol 15	021	LIES SUPPORTING EC CORO	
9.1.5.2.1 9.1.5.2.2	Mobility registration update / TAI list handling Periodic registration update / Accepted	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core	
9.1.5.2.2	Mobility registration update / Accepted Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core	
0.1.0.2.4	mosmity regionation appare / The lower layer	1.0113	021	See supporting 50 core	

use TC Title Release			Applicability	
N. 1.334		Condition	Comment	
Primary authentication and key agreement				
FAP hased primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
	110110	021	OLS supporting SO Core	
EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
	Rel-15	C21	UEs supporting 5G Core	
	Rel-15	C21 UEs supporting 5G Core		
agreement / 5G-AKA related procedures	1101 = 0			
5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core	
	Rel-15	C21	UEs supporting 5G Core	
	Rel-15	C21	UEs supporting 5G Core	
			UEs supporting 5G Core	
			UEs supporting 5G Core	
NAS integrity algorithm / SNOW3G				
Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core	
NAS integrity algorithm / AES				
Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
	D-145	001	LIF- comparison FO Ocas	
	Kel-15	C21	UEs supporting 5G Core	
	Rol-15	C21	UEs supporting 5G Core	
	I I I I I I	021	OLS supporting SO Core	
Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
functionality of 5G NAS encryption algorithm /				
	Rel-15	C21	UEs supporting 5G Core	
	D-145	001	LIFE and a stime of Co. Co.	
	Rel-15	C21	UEs supporting 5G Core	
Initial registration				
Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core	
reallocation, Last visited TAI				
Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core	
<u> </u>				
	Rel-15	C21	UEs supporting 5G Core	
	Dol-15	C21	UEs supporting 5G Core	
	Kel-13	C21	OES Supporting 30 Core	
<u> </u>	Rel-15	C21	UEs supporting 5G Core	
		C21	UEs supporting 5G Core	
attempts				
Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core	
Void	Rel-15	C21	UEs supporting 5G Core	
Initial registration / Rejected / Serving network	Rel-15	C21	UEs supporting 5G Core	
not authorized				
1 -	Rel-15	C21	UEs supporting 5G Core	
	Del 15	001	LIFe supporting EC Core	
	K6I-12	C21	UEs supporting 5G Core	
	Rel-15	C21	UEs supporting 5G Core	
allowed		021	S appointing 55 core	
Initial registration / Rejected / Roaming not	Rel-15	C21	UEs supporting 5G Core	
Innitial registration / refected / redamind not	1			
allowed in this tracking area				
	Rel-15	C21	UEs supporting 5G Core	
allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area				
allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion /	Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core	
allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346				
allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core	
allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core	
allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core	
	agreement / Reject EAP based primary authentication and key agreement / EAP message transport / Abnormal 5G AKA based primary authentication and key agreement / 5G-AKA related procedures 5G AKA based primary authentication and key agreement / Reject 5G AKA based primary authentication and key agreement / Reject 5G AKA based primary authentication and key agreement / Abnormal Security mode control NAS security mode command Protection of initial NAS signalling messages Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm	Primary authentication and key agreement Primary authentication and key agreement EAP based primary authentication and key agreement / EAP-AKA' related procedures EAP based primary authentication and key agreement / Reject EAP based primary authentication and key agreement / Reject EAP based primary authentication and key agreement / Reject EAP based primary authentication and key agreement / EAP message transport / Abnormal SG AKA based primary authentication and key agreement / Reject SG AKA based primary authentication and key agreement / Reject SG AKA based primary authentication and key agreement / Abnormal Rel-15 SG AKA based primary authentication and key agreement / Abnormal Rel-15 SG AKA based primary authentication and key agreement / Abnormal Rel-15 SG AKA based primary authentication and key agreement / Abnormal Rel-15 SG AKA based primary authentication and key agreement / Aboremal Rel-15 SG AKA based primary authentication and key agreement / Reject SG AKA based primary authentication and key agreement / Correct functionality of SG NAS security mode command Rel-15 Rel-1	Mobility management SGS mobility management Primary authentication and key agreement EAP based primary authentication and key agreement FAP-AKA related procedures EAP based primary authentication and key agreement FAP-AKA related procedures EAP based primary authentication and key agreement FAP-AKA related procedures C21 agreement FAP-AKA related procedures GAKA based primary authentication and key agreement FAP-AKA related procedures GAKA based primary authentication and key agreement FAP-AKA related procedures GAKA based primary authentication and key agreement FAP-AKA related procedures GAKA based primary authentication and key agreement Abnormal SECUTION FAP-AKA related procedures GAKA based primary authentication and key agreement Abnormal SECUTION FAP-AKA related procedures GAKA based primary authentication and key agreement Abnormal SECUTION FAP-AKA related procedures GAKA based primary authentication and key agreement Abnormal FAP-AKA related procedures GAKA based primary authentication and key agreement Abnormal FAP-AKA FAP-AKA related procedures FAP-AKA FAP-AKA related procedures FAP-AKA related procedures FAP-AKA FAP-AKA related procedures FAP-AKA related procedures FAP-AKA related procedure FAP-AKA	

Clause	TC Title	Release		Applicability
			Condition	Comment
9 9.1	Mobility management			
9.1.1	5GS mobility management Primary authentication and key agreement			
9.1.1.1	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.1	agreement / EAP-AKA' related procedures	1101 10	021	o Lo supporting Co Soils
9.1.1.2	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / Reject			
9.1.1.3	EAP based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
	agreement / EAP message transport / Abnormal			
9.1.1.4	5G AKA based primary authentication and key	Rel-15	C21 UEs supporting 5G Core	
	agreement / 5G-AKA related procedures			3
9.1.1.5	5G AKA based primary authentication and key	Rel-15	C21	UEs supporting 5G Core
0.1.1.0	agreement / Reject	D-145	001	LIFE CONTRACTOR FOR CONTRACTOR OF CONTRACTOR
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core
9.1.2	Security mode control			
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core
9.1.2.3	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
	NAS integrity algorithm / SNOW3G			
9.1.2.4	Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core
9.1.2.5	NAS integrity algorithm / AES Integrity protection / Correct functionality of 5G	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
J.1.2.3	NAS integrity algorithm / ZUC	VGI-T2	C21	OLS Supporting SO Core and 200 algorithm
9.1.2.6	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /	1101 = 0		
	SNOW3G			
9.1.2.7	Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core
	functionality of 5G NAS encryption algorithm /			
9.1.2.8	AES Ciphering and deciphering / Correct	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm
9.1.2.0	functionality of 5G NAS encryption algorithm /	Kel-13	C21	OES supporting 30 core and 200 algorithm
	ZUC			
9.1.3	Identification			
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core
9.1.4	Generic UE configuration update			
9.1.4.1	Generic UE configuration update / New 5G-	Rel-15	C21	UEs supporting 5G Core
	GUTI, NITZ, registration requested, Network			
	slicing indication, New Allowed NSSAI / acknowledgement from the UE			
9.1.5	Registration			
9.1.5.1	Initial registration			
9.1.5.1.1	Initial registration / Success / 5G-GUTI	Rel-15	C21	UEs supporting 5G Core
	reallocation, Last visited TAI			., -
9.1.5.1.2	Initial registration / 5GS services / Equivalent	Rel-15	C21	UEs supporting 5G Core
01510	PLMN list handling	D-145	001	UE
9.1.5.1.3	Initial registration / 5GS services / NSSAI handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.3a	Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core
0.1.0.1.0a	handling / NSSAI Storage	1101 10	021	OLS Supporting CC Core
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.5	Initial registration / Abnormal / Failure after 5	Rel-15	C21	UEs supporting 5G Core
	attempts			UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized	Rel-15 Rel-15 Rel-15	C21 C21 C21	UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not	Rel-15 Rel-15 Rel-15	C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not	Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.11	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells	Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15 Rel-15	C21 C21 C21 C21 C21 C21 C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5. 2 9.1.5.2.1	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update Mobility registration update / TAI list handling	Rel-15	C21	UEs supporting 5G Core
9.1.5.1.6 9.1.5.1.7 9.1.5.1.8 9.1.5.1.9 9.1.5.1.10 9.1.5.1.11 9.1.5.1.12 9.1.5.1.13 9.1.5.1.14 9.1.5.2	attempts Initial registration / Rejected / Illegal UE Void Initial registration / Rejected / Serving network not authorized Initial registration / Abnormal / Change of cell into a new tracking area Initial registration / Rejected / PLMN not allowed Initial registration / Rejected / Tracking area not allowed Initial registration / Rejected / Roaming not allowed in this tracking area Initial registration / Rejected / No suitable cells in tracking area Initial registration / Rejected / Congestion / Abnormal cases / T3346 Mobility and periodic registration update	Rel-15	C21	UEs supporting 5G Core

Clause	TC Title Release		Applicability		
0	Mobility management		Condition	Comment	
9 9.1	Mobility management 5GS mobility management				
9.1.1	Primary authentication and key agreement				
9.1.1.1	EAP based primary authentication and key agreement / EAP-AKA' related procedures	Rel-15	C21	UEs supporting 5G Core	
9.1.1.2	EAP based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core	
9.1.1.3	EAP based primary authentication and key agreement / EAP message transport / Abnormal	Rel-15	C21	UEs supporting 5G Core	
9.1.1.4	5G AKA based primary authentication and key agreement / 5G-AKA related procedures	Rel-15	C21	UEs supporting 5G Core	
9.1.1.5	5G AKA based primary authentication and key agreement / Reject	Rel-15	C21	UEs supporting 5G Core	
9.1.1.6	5G AKA based primary authentication and key agreement / Abnormal	Rel-15	C21	UEs supporting 5G Core	
9.1.2	Security mode control				
9.1.2.1	NAS security mode command	Rel-15	C21	UEs supporting 5G Core	
9.1.2.2	Protection of initial NAS signalling messages	Rel-15	C21	UEs supporting 5G Core	
9.1.2.3	Integrity protection / Correct functionality of 5G NAS integrity algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.4	Integrity protection / Correct functionality of 5G NAS integrity algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.5	Integrity protection / Correct functionality of 5G NAS integrity algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.2.6	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / SNOW3G	Rel-15	C21	UEs supporting 5G Core	
9.1.2.7	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / AES	Rel-15	C21	UEs supporting 5G Core	
9.1.2.8	Ciphering and deciphering / Correct functionality of 5G NAS encryption algorithm / ZUC	Rel-15	C21	UEs supporting 5G Core and ZUC algorithm	
9.1.3	Identification				
9.1.3.1	Identification procedure	Rel-15	C21	UEs supporting 5G Core	
9.1.4 9.1.4.1	Generic UE configuration update Generic UE configuration update / New 5G-GUTI, NITZ, registration requested, Network slicing indication, New Allowed NSSAI / acknowledgement from the UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5	Registration				
9.1.5.1	Initial registration	Dal 15	C21	LIFE avaparting FC Care	
9.1.5.1.1	Initial registration / Success / 5G-GUTI reallocation, Last visited TAI	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.2	Initial registration / 5GS services / Equivalent PLMN list handling Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core UEs supporting 5G Core	
9.1.5.1.3 9.1.5.1.3a	handling Initial registration / 5GS services / NSSAI Initial registration / 5GS services / NSSAI	Rel-15	C21	UEs supporting 5G Core	
3.1.3.1.3a	handling / NSSAI Storage	I IVEI-13	021	OLS Supporting 3G Core	
9.1.5.1.4	Initial registration / MICO mode	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.5	Initial registration / Abnormal / Failure after 5 attempts	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.6	Initial registration / Rejected / Illegal UE	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.7	Void	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.8	Initial registration / Rejected / Serving network not authorized	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.9	Initial registration / Abnormal / Change of cell into a new tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.10	Initial registration / Rejected / PLMN not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.11	Initial registration / Rejected / Tracking area not allowed	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.12	Initial registration / Rejected / Roaming not allowed in this tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.13	Initial registration / Rejected / No suitable cells in tracking area	Rel-15	C21	UEs supporting 5G Core	
9.1.5.1.14	Initial registration / Rejected / Congestion / Abnormal cases / T3346	Rel-15	C21	UEs supporting 5G Core	
9.1.5.2	Mobility and periodic registration update	Dol 15	021	LIES SUPPORTING EC CORO	
9.1.5.2.1 9.1.5.2.2	Mobility registration update / TAI list handling Periodic registration update / Accepted	Rel-15 Rel-15	C21 C21	UEs supporting 5G Core UEs supporting 5G Core	
9.1.5.2.2	Mobility registration update / Accepted Mobility registration update / The lower layer	Rel-15	C21	UEs supporting 5G Core	
0.1.0.2.4	mosmity regionation appare / The lower layer	1.0113	021	See supporting 50 core	

Table 4.1-4b: Additional Information of Applicability of Protocol conformance Mobility and Session Management test cases, ref. TS 38.523-1 [2]

Clause	Specific ICS and IXIT	Comment	Number of TC Executions	Release other RAT
9				
9.1				
9.1.6				
9.1.6.1				
9.1.6.1.1	[10] pc_USIM_Removal	Support of USIM removal without power down		
9.3				
9.3.1				
9.3.1.1				Rel-15 E-UTRA
9.3.1.2				Rel-15 E-UTRA
9.3.1.3				Rel-15 E-UTRA
10				
10.1				

Table 4.1-5a: Applicability of Protocol conformance Multi-layer test cases, ref. TS 38.523-1 [2]

Clause	TC Title	Release	Applicability			
			Condition	Comment		
11	Multi-layer and Services					
11.1	5GS / EPS fallback					
11.1.1	MMTEL voice call setup from NR RRC_IDLE / EPS Fallback with redirection / Single registration mode with N26 interface / Success	Rel-15	C54	UEs supporting 5G Core and E-UTRA and IMS Voice and EPS fallback		
11.1.2	MO MMTEL voice call setup from NR RRC_IDLE / EPS Fallback with redirection / Single registration mode without N26 interface / Success	Rel-15	C54	UEs supporting 5G Core and E-UTRA and IMS Voice and EPS fallback		
11.1.3	MO MMTEL voice call setup from NR RRC_CONNECTED / EPS Fallback with handover / Single registration mode with N26 interface / Success	Rel-15	C54	UEs supporting 5G Core and E-UTRA and IMS Voice and EPS fallback		
11.1.4	MO MMTEL voice call setup from NR RRC_CONNECTED / EPS Fallback with redirection / Single registration mode with N26 interface / E-UTRAN cell reselection using cell status barred / Success	Rel-15	C54	UEs supporting 5G Core and E-UTRA and IMS Voice and EPS fallback		
11.1.5	MO MMTEL voice call setup from NR RRC_CONNECTED / EPS Fallback with redirection / Single registration mode without N26 interface / E-UTRAN cell reselection using cell status reservation / Success	Rel-15	C54	UEs supporting 5G Core and E-UTRA and IMS Voice and EPS fallback		
11.1.6	MT MMTEL voice call setup from NR RRC_IDLE / EPS Fallback with redirection / Single registration mode without N26 interface / Success	Rel-15	C54	UEs supporting 5G Core and E-UTRA and IMS Voice and EPS fallback		
11.1.7	Emergency call setup from NR RRC_IDLE / Emergency Services Fallback to EPS with redirection / Single registration mode with N26 interface / Success	Rel-15	C47	UEs supporting 5GS and E-UTRA and IMS emergency call and Emergency Services Fallback to EPS		
11.3	Unified Access Control (UAC)					
11.3.6	UAC / Access Identity 2 / New cell not in the country of its HPLMN/EHPLMN 0% access probability/MCS indicator / HPLMN/0%/100% accessibility AC7/RRC_INACTIVE	Rel-15	C21	UEs supporting 5G Core		
11.4	Emergency Services		001	115 15 50 0		
11.4.1	5GMM-REGISTERED.NORMAL-SERVICE / 5GMM-IDLE / Emergency call / Utilising emergency number stored on the USIM / New emergency PDU session	Rel-15	C21	UEs supporting 5G Core		
11.4.2	5GMM-DEREGISTERED.LIMITED-SERVICE / Emergency call / Utilisation of emergency numbers stored on the ME / Initial registration for emergency services / Handling of forbidden PLMNs	Rel-15	C21	UEs supporting 5G Core		
11.4.3	5GMM-DEREGISTERED.NO-SUPI / Emergency call / Utilisation of emergency	Rel-15	C21	UEs supporting 5G Core		

Clause	TC Title	Release	Applicability		
			Condition	Comment	
	numbers stored on the ME / Initial registration for emergency services				
11.4.4	5GMM-REGISTERED.ATTEMPTING- REGISTRATION-UPDATE T3346 running / Emergency call establishment	Rel-15	C21	UEs supporting 5G Core	
11.4.5	5GMM-REGISTERED.LIMITED-SERVICE / 5GMM-IDLE / Emergency call establishment and release / Handling of 5GS forbidden tracking areas for roaming	Rel-15	C21	UEs supporting 5G Core	
11.4.6	5GMM-REGISTERED.NON-ALLOWED- SERVICE / Emergency call establishment and release / Handling of non-allowed tracking areas	Rel-15	C21	UEs supporting 5G Core	

Table 4.1-5b: Additional Information of Applicability of Protocol conformance Multi-layer test cases, ref. TS 38.523-1 [2]

Clause	Specific ICS and IXIT	Comment	Number of TC Executions	Release other RAT
11				
11.1				
11.1.1				Rel-15 E-UTRA
11.1.2				Rel-15 E-UTRA
11.1.3				Rel-15 E-UTRA
11.1.4				Rel-15 E-UTRA
11.1.5				Rel-15 E-UTRA
11.1.6				Rel-15 E-UTRA
11.1.7				Rel-15 E-UTRA

4.2 Protocol conformance test cases Applicability Condition

Table 4.2-1: Applicability of Protocol conformance test cases Conditions

Condition	Test case Selection Expression	Comment		
C01	IF A.4.1-3/2 THEN R ELSE N/A	UEs supporting EN-DC		
C02	IF (A.4.3.4-1/2 OR A.4.3.4-1/3) THEN R ELSE N/A	UEs supporting 5GS and RLC UM Mode		
C03	IF A.4.3.5-1/1 THEN R ELSE N/A	UEs supporting 5GS and Long DRX Cycle		
C04	IF A.4.3.5-1/2 THEN R ELSE N/A	UEs supporting 5GS and short DRX cycle		
C05	IF A.4.3.4-1/3 THEN R ELSE N/A	UEs supporting 5GS and RLC UM with 6-bit length of RLC sequence number		
C06	IF A.4.3.4-1/2 THEN R ELSE N/A	UEs supporting 5GS and RLC UM with 12-bit length of RLC sequence number		
C07	IF A.4.3.4-1/1 THEN R ELSE N/A	UEs supporting 5GS and RLC AM with 12-bit length of RLC sequence number		
C08	IF A.4.3.3-1/1 THEN R ELSE N/A	UEs supporting 5GS and 12-bit length of PDCP sequence number		
C09	IF [10] A.4.4-1/99 THEN R ELSE N/A	UEs supporting 5GS and ZUC Algorithm		
C10	IF A.4.3.7-1/2 THEN R ELSE N/A	UEs supporting 5GS and UL transmission via both MCG path and SCG path for the split DRB		
C11	IF (A.4.3.2-1/2 OR A.4.3.2-1/3) THEN R ELSE N/A	UEs supporting 5GS and 256QAM for PDSCH for FR1/FR2		
C12	IF (A.4.3.2-1/4) THEN R ELSÉ N/A	UEs supporting 5GS and 256QAM for PUSCH		
C13	IF A.4.1-3/2 AND A.4.3.6-1/1 THEN R ELSE N/A	UEs supporting EN-DC and NR measurements and Event A triggered reporting		
C14	IF A.4.1-3/2 AND A.4.3.6-1/1 AND A.4.3.6-1/3 THEN R ELSE N/A	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR Intra-frequency and NR-Inter frequency measurements and at least periodical reporting)		
C15	IF A.4.1-3/2 AND A.4.3.6-1/1 AND A.4.3.6-1/3 AND A.4.3.6-1/4 THEN R ELSE N/A	UEs supporting EN-DC and NR measurements and Event A triggered reporting and (NR Intra-frequency and Inter frequency measurements and at least periodical reporting) and CSI-RSRP measurement		
C16	IF A.4.1-3/2 AND [10] A.4.4-1/18 AND [10] A.4.4-1/19 THEN R ELSE N/A	UEs supporting EN-DC and UE requested bearer resource allocation and modification procedures		
C17	IF A.4.3.2-1/1 THEN R ELSE N/A	UEs supporting 5GS and PDSCH reception based on semi- persistent scheduling		
C18	IF A.4.3.2-1/10 THEN R ELSE N/A	UEs supporting 5GS and Type 1 PUSCH transmissions with configured grant		
C19	IF A.4.3.2-1/11 THEN R ELSE N/A	UEs supporting 5GS and Type 2 PUSCH transmissions with configured grant		
C20	IF A.4.3.2-1/12 THEN R ELSE N/A	UEs supporting 5GS and PDSCH aggregation		
C21	IF A.4.1-5/1 THEN R ELSE N/A	UEs supporting 5G Core		
C21A	IF A.4.1-5/1 AND A.4.3.7-1/4 THEN R ELSE N/A	UEs supporting 5G Core and reflective QoS		
C22	IF A.4.1-3/2 AND A.4.3.7-1/3 THEN R ELSE N/A	UEs supporting EN-DC and SRB3		
C23	IF A.4.1-3/2 AND A.4.3.7-1/1 AND A.4.3.7-1/3 THEN R ELSE N/A	UEs supporting EN-DC, UL transmission via either MCG path or SCG path for the split SRB and SRB3		
C24	IF A.4.1-3/2 AND A.4.3.6-1/3 AND A.4.3.6-1/2 AND A.4.1-4/3 THEN R ELSE N/A	UEs supporting EN-DC and (NR intra-frequency and inter- frequency measurements and at least periodical reporting) and (two independent measurement gap configurations for FR1 and FR2) and Inter-Band EN-DC within FR1		
C25	IF A.4.1-3/2 AND A.4.3.6-1/3 AND A.4.3.6-1/2 AND A.4.1-4/4 THEN R ELSE N/A	UEs supporting EN-DC and (NR intra-frequency and inter- frequency measurements and at least periodical reporting) and (two independent measurement gap configurations for FR1 and FR2) and Inter-Band EN-DC including FR2		
C26	IF ([10] A.4.1-1/1 OR [10] A.4.1-1/2) THEN R ELSE N/A	UEs supporting 5GS and E-UTRA		
C27	IF A.4.1-5/1 AND A.4.3.6-1/1 THEN R ELSE N/A	UEs supporting 5G Core and NR measurements and Event A triggered reporting		
C28	IF A.4.3.2-1/13 THEN R ELSE N/A	UEs supporting 5GS and supplemental uplink with dynamic switch		
C29	IF A.4.1-5/2 AND [10] A.4.1-1/5.	UEs supporting 5G core over non-3GPP Access Network and WLAN		
C30	IF A.4.1-5/2 AND A.4.3.7-1/1 AND [10] A.4.1-1/5.	UEs supporting 5G core over non-3GPP Access Network, SMS over NAS and WLAN		
C31	IF A.4.1-5/1 AND A.4.3.6-1/5 THEN R ELSE N/A	UEs supporting 5G Core and Inter-RAT E-UTRA measurements and Event B triggered reporting		
C32	IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) THEN R ELSE N/A	UEs supporting 5G Core and E-UTRA		
C33	IF A.4.1-5/1 AND A.4.3.7-1/6 AND NOT [10] A.4.4-2/32 THEN R ELSE N/A	UEs supporting 5G Core and SMS over NAS and UE configured to not use SMSoIP		
C34	IF A.4.1-5/1 AND [10] A.4.4-1/84 THEN R ELSE N/A	UEs supporting 5G Core and MinimumPeriodicSearchTimer		
C35	IF A.4.1-5/1 AND (10) A.4.4-1/84 THEN R ELSE N/A IF A.4.1-5/1 AND (A.4.3.7-1/8 OR A.4.3.7-1/7) THEN R ELSE N/A	UEs supporting 5G Core and (ETWS reception or CMAS reception)		
C36	IF A.4.1-5/1 AND A.4.3.7-1/7 THEN R ELSE N/A	UEs supporting 5G Core and user initiated PLMN reselection in automatic mode on NR		
C37	IF A.4.1-5/1 AND A.4.1-2/1 OR A.4.1-2/2 THEN R ELSE N/A	UEs supporting 5G Core and more than 1 FDD or TDD NR band		
	in the strate in the strate of	10 20 capporting co coro and more than 11 DD or 1DD MY band		

Condition	Test case Selection Expression	Comment
C01	IF A.4.1-3/2 THEN R ELSE N/A	UEs supporting EN-DC
C38	IF A.4.1-5/1 AND A.4.1-1/1 AND A.4.1-1/2 THEN R ELSE N/A	UEs supporting 5G Core and NR FDD and NR TDD
C39	IF A.4.1-5/1 AND A.4.3.7-1/1 AND A.4.3.7-1/10 THEN R ELSE N/A	UEs supporting 5G Core additional UE-requested PDU establishment and the UE includes the SM PDU DN request container IE in the PDU SESSION ESTABLISHMENT REQUEST
C40		message.
C40 C41	IF A.4.1-5/1 AND A.4.3.6-1/6 THEN R ELSE N/A	UEs supporting 5G Core and SS-SINR measurements
	N/A	UEs supporting 5G Core and intra-band contiguous CA
C42	IF A.4.1-5/1 AND (A.4.1-4A/5 OR A.4.1-4A/6 OR A.4.1-4A/7) THEN R ELSE N/A	UEs supporting 5G Core and inter-band CA
C43	IF A.4.1-5/1 AND (A.4.1-4A/2 OR A.4.1-4A/4) THEN R ELSE N/A	UEs supporting 5G Core and intra-band non-contiguous CA
C44	IF A.4.1-4A/1 OR A.4.1.4A/3 THEN R ELSE N/A	UEs supporting 5GS and intra-band contiguous CA
C45	IF A.4.1-4A/5 OR A.4.1-4A/6 OR A.4.1-4A/7) THEN R ELSE N/A	UEs supporting 5GS and inter-band CA
C46	IF A.4.1-4A/2 OR A.4.1.4A/4 THEN R ELSE N/A	UEs supporting 5GS and intra-band non-contiguous CA
C47	IF ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND [10] A.4.2.1.1-1/4	UEs supporting 5GS and E-UTRA and IMS emergency call and
C48	AND A.4.3.7-1/11 THEN R ELSE N/A IF A.4.1-5/1 AND A.4.4.2-1/3 THEN R ELSE N/A	Emergency Services Fallback to EPS UEs supporting 5G Core and Number of UE-requested PDU
C49	IF A.4.1-5/1 AND A.4.3.6-1/2 THEN R ELSE N/A	session establishments after REGISTRATION UE supporting 5G Core and two independent measurement gap
		configurations for FR1 and FR2
C50	IF A.4.1-5/1 AND A.4.3.6-1/5 AND A.4.3.6-1/6 THEN R ELSE N/A	UEs supporting 5G Core and Inter-RAT E-UTRA measurements and Event B triggered reporting and SS-SINR measurements
C51	IF A.4.3.2-1/21 THEN R ELSE N/A	UEs supporting 5GS and PUSCH aggregation
C52	IF A.4.1-5/1 AND A.4.3.6-1/1 AND A.4.3.6-1/3 AND A.4.3.6-1/4 THEN R ELSE N/A	UEs supporting 5G Core and NR measurements and Event A triggered reporting and (NR Intra-frequency and Inter frequency measurements and at least periodical reporting) and CSI-RSRP measurement
C53	IF A.4.3.5-1/4 THEN R ELSE N/A	UEs supporting 5GS and Logical Channel SR-Delay Timer
C54	IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND [10] A.4.4-1/33 AND A.4.3.7-1/12 THEN R ELSE N/A	UEs supporting 5G Core and E-UTRA and IMS Voice and EPS fallback
C55	IF A.4.1-3/2 AND A.4.3.6-1/1 AND (A.4.1-4A/1 OR A.4.1-	UEs supporting EN-DC and NR measurements and Event A
	4A/3) THEN R ELSE N/A	triggered reporting and intra-band contiguous CA
C56	IF A.4.1-3/2 AND A.4.3.6-1/1 AND (A.4.1-4A/5 OR A.4.1-4A/6 OR A.4.1-4A/7) THEN R ELSE N/A	UEs supporting EN-DC and NR measurements and Event A triggered reporting and inter-band CA
C57	IF A.4.1-3/2 AND A.4.3.6-1/1 AND (A.4.1-4A/2 OR A.4.1-	UEs supporting EN-DC and NR measurements and Event A
C58	4A/4) THEN R ELSE N/A IF A.4.1-5/2 AND [10] A.4.1-1/5.AND A.4.4-1/1	triggered reporting and intra-band non-contiguous CA UEs supporting 5G core over non-3GPP Access Network ,WLAN
C59	IF A.4.1-5/1 AND A.4.3.6-1/8 THEN R ELSE N/A	and (ICMP or ICMP IPv6) UEs supporting 5G Core and Support acquisition of relevant
C59	IF A.4.1-9/1 AND A.4.3.0-1/8 THEN R ELSE N/A	information from a neighbouring intra-frequency or inter-frequency NR cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when EN-DC is not configured.
C60	IF A.4.1-5/1 AND A.4.3.6-1/7 THEN R ELSE N/A	UEs supporting 5G Core and Support acquisition of relevant information from a neighbouring E-UTRA cell by reading the SI of the neighbouring cell and reporting the acquired information to the network as specified in TS 38.331 [9] when the EN-DC is not configured.
C61	IF A.4.1-3/2 AND A.4.3.7-1/1 THEN R ELSE N/A	UEs supporting EN-DC and UL transmission via either MCG path or SCG path for the split SRB
C62	IF A.4.3.3-1/4 THEN R ELSE N/A	UEs supporting 5GS and PDCP duplication over split DRB
C63	IF A.4.1-5/1 AND A.4.3.7-1/13 THEN R ELSE N/A	UEs supporting 5G Core and UE requested PDU session modification procedure
C64	IF A.4.3.2-1/22 THEN R ELSE N/A	UEs supporting 5GS and The maximum number of spatial multiplexing layer(s) supported by the UE for DL reception. For single CC standalone NR, it is mandatory with capability signalling to support at least 4 MIMO layers in the bands where 4Rx is specified as mandatory for the given UE and at least 2 MIMO layers in FR2. If absent, the UE doesn't support MIMO on this carrier
C65	IF A.4.3.2-1/22 AND (A.4.3.2-1/4) THEN R ELSE N/A	UEs supporting 5GS and The maximum number of spatial multiplexing layer(s) supported by the UE for DL reception. For single CC standalone NR, it is mandatory with capability signalling to support at least 4 MIMO layers in the bands where 4Rx is specified as mandatory for the given UE and at least 2 MIMO layers in FR2. If absent, the UE doesn't support MIMO on this carrier
C66	IF A.4.3.2-1/23 THEN R ELSE N/A	UEs supporting 5GS and DCI and timer based active BWP
		switching delay type1 or type2

Annex A (informative): Change history

Change history							
Date	Meeting	TDoc	CR	R ev	Cat	Subject/Comment	New version
2017-08	RAN5#76	R5-174402	-	-	-	Introduction of TS 38.523-2	0.0.1
2018-03	RAN5##2 -5G-NR Adhoc	R5-181762	-	-	-	Draft TS 38.523-2 v0.1.0	0.1.0
2018-04	RAN5##2 -5G-NR Adhoc	R5-181837	-	-	-	Draft TS 38.523-2 v0.2.0	0.2.0
2018-04	RAN5##2 -5G-NR Adhoc	R5-181838	-	-	-	Addition of applicability for new 5GS test cases	0.2.0
2018-04	RAN5##2 -5G-NR Adhoc	R5-181210	-	-	-	Add applicability for new NR testcases	0.2.0
2018-04	RAN5##2 -5G-NR Adhoc	R5-180922	-	-	-	Addition of applicability of new NR test cases 7.1.3.2 and 7.3.4.2	0.2.0
2018-04	RAN5##2 -5G-NR Adhoc	R5-180974	-	-	-	Addition of New Layer 2 NR Test Case Applicability	0.2.0
2018-05	RAN5#79	R5-182897	_	Ŀ	-	Update to NR test cases applicability	1.0.0
2018-05	RAN5#79	R5-183158	-	-		Update to NR Test case applicability	1.0.0
2018-05	RAN5#79	R5-183159	-	-	-	Addition of Layer 2 test case applicabilities and selection expressions	1.0.0
2018-05		R5-183235	-	-	-	Correction to applicability of NR testcases	1.0.0
2018-05	RAN5#79	R5-183236	-	-	-	Updates to applicability for session management TCs	1.0.0
2018-06	RAN#80	RP-181211	-	-	-	put under revision control as v15.0.0 with small editorial changes	15.0.0
2018-09	RAN#81	R5-184682	0004	-	F	Update of test case title for TC 8.2.5.1.1	15.1.0
2018-09	RAN#81	R5-185157	0005	1	F	Update of NR test cases title and applicability	15.1.0
2018-09	RAN#81	R5-185162	0003	1	F	Addition of missing and new test cases applicabilities	15.1.0
2018-12	RAN#82	R5-186875	0021	-	F	Removal of applicability for RRC SCG failure tests	15.2.0
2018-12	RAN#82	R5-188196	0027	1	F	Addition of test applicabilities for 5GC testcases	15.2.0
2018-12	RAN#82	R5-187499	0029	-	F	Adding applicability of test cases 8.2.2.1.1 and 8.2.2.3.1	15.2.0
2018-12	RAN#82	R5-187799	0022	1	F	Adding applicability for 5G TC TA registration update	15.2.0
2018-12	RAN#82	R5-188103	0033	-	F	Update of applicability and selection expressions	15.2.0
2018-12	RAN#82	R5-188104	0030	1	F	Adding new test case applicability	15.2.0
2018-12	RAN#82	R5-188197	0031	3	F	Update of 5G-NR test cases applicability	15.2.0
2019-03	RAN#83	R5-192033	0043	-	F	Addition of applicability of new 5GC test case 9.1.2.2	15.3.0
2019-03	RAN#83	R5-192707	0044	1	F	Introduction of Non 3GPP Access over WLAN test case applicabilities	15.3.0
2019-03	RAN#83	R5-192809	0040	1	F	Addition of applicability for Inter-RAT measurement and handover	15.3.0
2019-03	RAN#83	R5-192856	0039	2	F	Addition of applicability for NR test case	15.3.0
2019-03 2019-06	RAN#83 RAN#84	R5-192857 R5-194891	0042	3	F	Update of 5G-NR test cases applicability Introduction of Non 3GPP Access over WLAN test case applicabilities	15.3.0 15.4.0
2019-06	RAN#84	R5-195371	0046	2	F	Addition of Applicability for test cases	15.4.0
2019-06	RAN#84	R5-195371	0051	2	F	Update of 5G-NR test cases applicability	15.4.0
2019-06	RAN#84	-	-	-	-	Administrative release upgrade to match the release of 3GPP TS 38.508-1 which was upgraded at RAN#84 to Rel-16 due to Rel-16 relevant CR(s)	16.0.0
2019-09	RAN#85	R5-197228	0057	1	F	Non 3GPP Access over WLAN test case applicabilities	16.1.0
2019-09	RAN#85	R5-197291	0062	1	F	Removal of applicability of Radio Link Failure test cases	16.1.0
2019-09	RAN#85	R5-197667	0055	2	F	Addition of applicability for RRC test cases	16.1.0
2019-09	RAN#85	R5-197668	0056	2	F	Update of 5G-NR test cases applicability	16.1.0
2019-12	RAN#86	R5-198496	0074	<u> -</u>	F	Non 3GPP Access over WLAN test cases applicability	16.2.0
2019-12	RAN#86	R5-199040	0070	1	F	Addition of applicability for test cases	16.2.0
2019-12	RAN#86	R5-199060	0072	1	F	Update of 5G-NR test cases applicability	16.2.0
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