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User Equipment (UE) conformance specification;

Part 2: Applicability of protocol test cases

(Release 17)

** 

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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:

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y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z the third digit is incremented when editorial only changes have been incorporated in the document.

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*.

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

[2] 3GPP TS 38.523-1: "5GS; User Equipment (UE) conformance specification; Part 1: Protocol".

[3] 3GPP TS 38.523-3: "5GS; User Equipment (UE) conformance specification; Part 3: Protocol Test Suites".

[4] 3GPP TS 38.508-1: "5GS; User Equipment (UE) conformance specification; Part 1: Common test environment".

[5] 3GPP TS 38.508-2: "5GS; User Equipment (UE) conformance specification; Part 2: Common Implementation Conformance Statement (ICS) proforma".

[6] 3GPP TS 38.509: "5GS; Special conformance testing functions for User Equipment (UE)".

[7] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal 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 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".

[11] 3GPP TS 34.123-2: "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. The parameters (ICS) shall be set according to the capabilities of the UE on the operating band / band combination under test.

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).

Note: Currently for RedCap UEs that set the PICS complying with TS 38.508-2 [5] clause A.4.3.12, Rel-15 test cases and Rel-17 RedCap specific test cases are applicable. Applicability of other Rel-16 and Rel-17 test cases are under further study.

## 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 | Applicability Condition | Applicability Comment |
| --- | --- | --- | --- | --- |
| **6** | **Idle mode operations** |  |  |  |
| **6.1** | **NR idle mode operations** |  |  |  |
| **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 |
| 6.1.1.4a | PLMN selection in shared network environment / Automatic mode / Cells broadcasting multiple PLMN IDs with unique TAC's, RAN areas, and cell identities | 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 | C91 | UEs supporting 5G Core and ManualModeNetworkSelectionException |
| **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 | Cell 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 |
| 6.1.2.3a | Intra frequency reselection not allowed | 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 |
| 6.1.2.7 | Cell reselection / Equivalent PLMN | Rel-15 | C21 | UEs supporting 5G Core |
| 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 0, 1, 2 and 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 |
| 6.1.2.15a | Cell reselection in shared network environment / Cells broadcasting multiple PLMN IDs with unique TAC's, RAN areas, and cell identities | 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 ThreshX, HighQ, ThreshX, LowQ and ThreshServing, LowQ | Rel-15 | C21 | UEs supporting 5G Core |
| 6.1.2.23 | Cell reselection / MFBI | Rel-15 | C21 | UEs supporting 5G Core |
| 6.1.2.24 | Slice-based cell reselection / Re-seletion priorities provided by SIB16 | Rel-17 | C240 | UEs supporting 5G Core and slice based cell reselection |
| 6.1.2.25 | Slice-based cell reselection / Re-derive reselection priority for frequency | Rel-17 | C240 | UEs supporting 5G Core and slice based cell reselection |
| 6.1.2.26 | Cell Selection / RedCap | Rel-17 | C212 | UEs supporting 5G Core and RedCap |
| 6.1.2.27 | Cell reselection / inter-frequency / RedCap | Rel-17 | C212 | UEs supporting 5G Core and RedCap |
| **6.2** | **Multi-mode environment** |  |  |  |
| **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 |
| **6.2.2** | **Inter-RAT Cell Selection** |  |  |  |
| 6.2.2.1 | Inter-RAT cell selection / From NR RRC\_IDLE to EUTRA\_Idle / Serving cell becomes non-suitable | Rel-15 | C32 | UEs supporting 5G Core and E-UTRA |
| 6.2.2.2 | Inter-RAT cell selection / From E-UTRA\_Idle to NR RRC\_IDLE / Serving cell becomes non-suitable | 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 | Void |  |  |  |
| 6.2.3.10 | Inter-RAT cell reselection / From E-UTRA\_IDLE to NR RRC\_IDLE / schedulingInfoList-v12j0 | Rel-15 | C32 | UEs supporting 5G Core and E-UTRA |
| 6.2.3.11 | Inter-RAT cell reselection / From E-UTRA\_IDLE to NR RRC\_IDLE / schedulingInfoListExt-r12 | 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 |
| 6.3.1.5 | Steering of UE in roaming during registration/UE configured to receive Steering of Roaming information but does not receive Steering of Roaming from Network | Rel-15 | C21 | UEs supporting 5G Core |
| 6.3.1.7 | Steering of UE in roaming during registration/security check unsuccessful but emergency service pending to be activated | Rel-15 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 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 |
| 6.3.1.10 | Steering of UE in roaming during mobility update registration | Rel-15 | C21 | UEs supporting 5G Core |
| **6.3.2** | **Steering of Roaming with using SOR-CMCI** |  |  |  |
| 6.3.2.1 | Steering of UE in roaming after registration / SOR-CMCI rule / DNN of the PDU session / DL NAS transport | Rel-17 | C21 | UEs supporting 5G Core |
| 6.3.2.2 | Steering of UE in roaming after registration / SOR-CMCI rule / MMTEL voice call / DL NAS transport | Rel-17 | C234 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 6.3.2.3 | Steering of UE in roaming after registration / SOR-CMCI rule / match all / DL NAS transport | Rel-17 | C21 | UEs supporting 5G Core |
| 6.3.2.4 | Steering of UE in roaming after registration / SOR-CMCI rule / DNN of the PDU session / update Tsor-cm Timer / DL NAS transport | Rel-17 | C21 | UEs supporting 5G Core |
| 6.3.2.5 | Steering of UE in roaming after registration / SOR-CMCI rule / DNN of the PDU session / store SOR-CMCI in ME / DL NAS transport | Rel-17 | C21 | UEs supporting 5G Core |
| 6.3.2.6 | Steering of UE in roaming after registration / SOR-CMCI rule / match all / Emergency call / DL NAS transport | Rel-17 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| **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 | C109 | UEs supporting 5G Core and RRC\_INACTIVE |
| 6.4.1.2 | Cell reselection of ePLMN in manual mode | Rel-15 | C109 | UEs supporting 5G Core and RRC\_INACTIVE |
| **6.4.2** | **Cell Selection / Qrxlevmin & Cell Reselection (Intra NR in RRC\_INACTIVE state** |  |  |  |
| 6.4.2.1 | Cell Selection / Qrxlevmin & Cell Reselection (Intra NR in RRC\_INACTIVE state) | Rel-15 | C109 | UEs supporting 5G Core and RRC\_INACTIVE |
| 6.4.2.2 | Inter-frequency cell reselection according to cell reselection priority provided by SIBs in RRC\_INACTIVE state | Rel-15 | C109 | UEs supporting 5G Core and RRC\_INACTIVE |
| 6.4.2.3 | Slice-based cell reselection in RRC\_INACTIVE state / Re-selection priorities provided by SIB16 | Rel-17 | C241 | UEs supporting 5G Core and RRC\_INACTIVE and slice based cell reselection |
| **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, Srxlev based) | Rel-15 | C110 | UEs supporting 5G Core and E-UTRA and RRC\_INACTIVE |
| **6.5** | **SNPN and CAG Selection** |  |  |  |
| **6.5.1** | **SNPN Only Selection** |  |  |  |
| 6.5.1.1 | SNPN Selection in Manual Mode | Rel-16 | C131 | UEs supporting 5G Core and SNPN |
| 6.5.1.2 | SNPN Selection in Automatic Mode | Rel-16 | C131 | UEs supporting 5G Core and SNPN |
| 6.5.1.3 | SNPN / User Reselection in Automatic Mode | Rel-16 | C167 | UEs supporting 5G Core and SNPN and user initiated SNPN reselection in automatic mode on NR |
| **6.5.2** | **CAG (Closed Acccess Group)** |  |  |  |
| 6.5.2.1 | CAG Selection in Manual Mode | Rel-16 | C132 | UEs supporting 5G Core and CAG |
| 6.5.2.2 | CAG Selection in Automatic Mode | Rel-16 | C132 | UEs supporting 5G Core and CAG |
| 6.5.2.3 | CAG / Limited Service / No Suitable cell | Rel-16 | C132 | UEs supporting 5G Core and CAG |
| 6.5.2.4 | CAG / cell reselection / Within allowed CAG/ non-CAG cell to CAG cell | Rel-16 | C168 | UEs supporting 5G Core and CAG and Autonomous search function on NR |
| 6.5.2.5 | Void |  |  |  |
| 6.5.2.6 | CAG / Cell Reservation | Rel-16 | C132 | UEs supporting 5G Core and CAG |
| **6.5.3** | **SNPN Selection** |  |  |  |
| 6.5.3.1 | SNPN Selection in Manual Mode / Using credentials from a credentials holder | Rel-17 | C304 | UEs supporting 5G Core and access using credentials assigned by a Credentials Holder separate from the SNPN |
| 6.5.3.2 | SNPN Selection in Manual Mode / Onboarding services in SNPN | Rel-17 | C305 | UEs supporting 5G Core and onboarding services in SNPN |
| 6.5.3.3 | SNPN Selection in Manual Mode / Switch to Automatic Mode | Rel-17 | C306 | UEs supporting 5G Core and emergency services in SNPN |
| 6.5.3.4 | SNPN Selection in Automatic Mode / Onboarding services in SNPN | Rel-17 | C305 | UEs supporting 5G Core and onboarding services in SNPN |
| 6.5.3.5 | SNPN Selection in Automatic Mode / Using credentials from a credentials holder | Rel-17 | C304 | UEs supporting 5G Core and accessing SNPN using credentials assigned by a Credentials Holder separate from the SNPN |
| 6.5.3.6 | SNPN / Limited service / No valid subscriber data | Rel-17 | C305 | UEs supporting 5G Core and Onboarding SNPN (hence supports Default UE Credentials) |
| 6.5.3.7 | SNPN / User Reselection in Automatic Mode / Using credentials from a credentials holder | Rel-17 | C307 | UEs supporting 5G Core and accessing SNPN using credentials from a Credentials Holder and user initiated SNPN reselection in automatic mode on NR |
| 6.5.3.8 | SNPN / cell reselection for IMS emergency services | Rel-17 | C306 | UEs supporting 5G Core and emergency services in NR connected to 5GCN in SNPN Access mode |
| 6.5.3.9 | SNPN / cell reselection / SNPN to PLMN | Rel-17 | C308 | UEs supporting 5G Core and PLMN access in SNPN Access mode and emergency services in NR connected to 5GCN in SNPN Access mode And IMS voice over NR |
| **6.6** | **NR Shared Spectrum idle mode operations** |  |  |  |
| **6.6.1** | **NR Shared Spectrum cell selection** |  |  |  |
| 6.6.1.1 | Cell selection / next strongest cell / Intra frequency reselection not allowed | Rel-16 | C217 | UEs supporting 5G Core and NR standalone shared spectrum channel access |
| 6.6.1.2 | Cell selection / next strongest cell / Intra frequency reselection not allowed / RRC Inactive | Rel-16 | C247 | UEs supporting 5G Core and NR standalone shared spectrum channel access and RRC\_INACTIVE |
| **6.6.2** | **NR Shared Spectrum cell reselection** |  |  |  |
| 6.6.2.1 | Cell reselection / next best cell / intra frequency | Rel-16 | C217 | UEs supporting 5G Core and NR standalone shared spectrum channel access |
| 6.6.2.2 | Cell reselection / next best cell not suitable / inter frequency | Rel-16 | C217 | UEs supporting 5G Core and NR standalone shared spectrum channel access |
| 6.6.2.3 | Cell reselection / next best cell / intra frequency / RRC Inactive | Rel-16 | C247 | UEs supporting 5G Core and NR standalone shared spectrum channel access and RRC\_INACTIVE |
| 6.6.2.4 | Cell reselection / next best cell not suitable / inter frequency / RRC Inactive | Rel-16 | C247 | UEs supporting 5G Core and NR standalone shared spectrum channel access and RRC\_INACTIVE |
| **6.7** | **NTN Idle mode operations** |  |  |  |
| 6.7.1 | NTN cell Seleciton |  |  |  |
| 6.7.1.1 | Cell Selection / GNSS location / NTN | Rel-17 | C309 | UEs supporting 5G Core and NR NTN access |
| 6.7.1.2 | Cell Selection / MultiTAC / NTN / trackingAreaList-r17 | Rel-17 | C309 | UEs supporting 5G Core and NR NTN access |
| 6.7.1.3 | Cell Selection / Serving cell becomes non-suitable (CellBarredNTN) | Rel-17 | C309 | UEs supporting 5G Core and NR NTN access |
| 6.7.1.4 | NR-NTN / PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer test case | Rel-17 | C309 | UEs supporting 5G Core and NR NTN access |

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** |  |  |  |  |
| 6.1.1.4a |  |  | If test case 6.1.1.4 has been executed, then test case 6.1.1.4a need not to be executed (Note 1) |  |
| 6.1.2.8 |  |  | If test case 6.1.2.7 has been executed then test case 6.1.2.8 needs not to be executed |  |
| 6.1.2.15a |  |  | If test case 6.1.2.15 has been executed, then test case 6.1.2.15a need not to be executed (Note 1) |  |
| 6.1.2.23 |  | px\_NR\_OverlappingNotSupportedBand\_MFBI |  |  |
| **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 | [10] pc\_Available\_PLMNs\_AcT\_Ind |  |  | 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 |
| **6.3** |  |  |  |  |
| **6.3.1** |  |  |  |  |
| 6.3.1.2 | pc\_SOR\_ACKNotReqLocalRel |  |  |  |
| **6.4** |  |  |  |  |
| **6.4.1** |  |  |  |  |
| **6.4.2** |  |  |  |  |
| **6.4.3** |  |  |  |  |
| 6.4.3.1 |  |  |  | Rel-15 E-UTRA |
| Note 1: The two TCs verify the same core spec requirement(s) however in a different cell configuration to address different network deployments i.e., Cells broadcasting multiple PLMN IDs with unique TAC's, RAN areas, and cell identities | | | | |

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

| Clause | TC Title | Release | Applicability Condition | Applicability Comment |
| --- | --- | --- | --- | --- |
| **7** | **Layer 2** |  |  |  |
| **7.1** | **NR Layer 2** |  |  |  |
| **7.1.1** | **MAC** |  |  |  |
| **7.1.1.1** | **Random Access Procedures** |  |  |  |
| 7.1.1.1.1 | 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 |
| 7.1.1.1.1a | 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 |
| 7.1.1.1.3 | Random access procedure / Successful / SI request | Rel-15 | C21 | UEs supporting 5G Core |
| 7.1.1.1.4 | 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 |
| 7.1.1.1.7 | Random access procedure / 2-step RACH / RA\_TYPE selection | Rel-16 | C135 | UEs supporting 2-Step RACH |
| 7.1.1.1.8 | Correct selection of RACH parameters / 2-step RACH/MSGA and PRACH resource explicitly signalled to the UE by RRC / contention free random access procedure | Rel-16 | C135 | UEs supporting 2-Step RACH |
| 7.1.1.1.9 | Random access procedure / Successful / 2-step RACH/C-RNTI Based / Preamble selected by MAC itself | Rel-16 | C135 | UEs supporting 2-Step RACH |
| 7.1.1.1.9a | Random access procedure / 2-step RACH / Successful / RRC\_IDLE | Rel-16 | C135A | UEs supporting 5G Core and 2-Step RACH |
| 7.1.1.1.10 | Random access procedure / 2-step RACH/not complete/ RA\_TYPE to 4-stepRA | Rel-16 | C135 | UEs supporting 2-Step RACH |
| 7.1.1.1.10a | Random access procedure / 2-step RACH/ Fallback for CBRA | Rel-16 | C135A | UEs supporting 5G Core and 2-Step RACH |
| 7.1.1.1.11 | Random access procedure / Successful / Slice specific RACH configuration | Rel-17 | C262 | UEs supporting slice-based RACH partitioning and slice-based RACH prioritisation |
| 7.1.1.1.12 | Random access procedure / Successful / ra-PrioritizationForSlicing | Rel-17 | C263 | UEs supporting slice-based RACH partitioning, slice-based RACH prioritisation and RACH prioritisation for Access Identity 1 |
| 7.1.1.1.13 | Random access procedure / Successful / Slice specific RACH configuration / 2-step RACH | Rel-17 | C264 | UEs supporting 2-Step RACH, slice-based RACH partitioning and slice-based RACH prioritisation |
| 7.1.1.1.14 | Random access procedure / Successful / ra-PrioritizationForSlicingTwoStep / 2-step RACH | Rel-17 | C265 | UEs supporting 2-Step RACH, slice-based RACH partitioning, slice-based RACH prioritisation and RACH prioritisation for Access Identity 1 |
| 7.1.1.1.15 | Random access procedure / RedCap UE / SI request | Rel-17 | C212 | UEs supporting 5G Core and RedCap |
| 7.1.1.1.16 | Random access procedure / RedCap UE identification / Msg3-based / CCCH1 | Rel-17 | C212a | UEs supporting 5G Core and RedCap and RRC\_INACTIVE |
| 7.1.1.1.17 | Random access procedure / RedCap UE identification | Rel-17 | C212 | UEs supporting 5G Core and RedCap |
| 7.1.1.1.18 | Random access procedure / Msg3 repetition indication / Random access resources selection | Rel-17 | C211 | UEs supporting repetition of Message 3 PUSCH |
| 7.1.1.1.19 | Random access procedure / Successful / Beam Failure / Unified TCI | Rel-17 | C311 | UEs supporting 5GS and unified TCI state operation with joint DL/UL TCI update for intra-cell beam management |
| **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 |
| 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 |
| 7.1.1.2.5 | Correct HARQ process handling / DL grant prioritization | Rel-16 | C179 | UEs supporting DCI DL Priority Indicator |
| 7.1.1.2.6 | Correct HARQ process handling / dynamic PUCCH repetition indication | Rel-17 | C287 | UEs supporting dynamic indication of PUCCH repetition |
| 7.1.1.2.7 | Correct HARQ process handling / Unified TCI Activation | Rel-17 | C312 | UEs supporting 5GS and unified separate TCI with multi-MAC-CE |
| **7.1.1.3** | **Uplink Data Transfer** |  |  |  |
| 7.1.1.3.1 | 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 | C175 | UEs supporting 5GS and selection of logical channels for each UL grant based on RRC configured restriction |
| 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** | **UE power headroom reporting / SCell activation / DL pathloss change reporting** |  |  |  |
| 7.1.1.3.8.1 | UE power headroom reporting / SCell activation / DL pathloss change reporting / Intra-band Contiguous CA | Rel-15 | C81 | UEs supporting 5GCore and intra-band contiguous CA and UL NR CA with 2 carriers |
|  |  |  | C81A | UEs supporting EN-DC and intra-band contiguous CA and EN-DC with 2 NR UL carriers |
| 7.1.1.3.8.2 | UE power headroom reporting / SCell activation / DL pathloss change reporting / Inter-band CA | Rel-15 | C82 | UEs supporting 5GCore and inter-band CA and UL NR CA with 2 carriers |
|  |  |  | C82A | UEs supporting EN-DC and inter-band CA and EN-DC with 2 NR UL carriers |
| 7.1.1.3.8.3 | UE power headroom reporting / SCell activation / DL pathloss change reporting / Intra-band non Contiguous CA | Rel-15 | C83 | UEs supporting 5GCore and intra-band non-contiguous CA and UL NR CA with 2 carriers |
|  |  |  | C83A | UEs supporting EN-DC and intra-band non-contiguous CA and EN-DC with 2 NR UL carriers |
| 7.1.1.3.9 | Correct Handling of UL HARQ process / PUSCH Repetition Type A / PUSCH Aggregation | Rel-15 | C51 | UEs supporting 5GS and PUSCH aggregation |
| 7.1.1.3.10 | Correct Handling of HARQ process / Multiple CORESETPoolIndex | Rel-16 | C107 | UEs supporting 5GS and multi-DCI based Multi-TRP |
| 7.1.1.3.11 | Correct handling of UL grant prioritization | Rel-16 | C114 | UEs supporting 5GS and LCH-based UL grant prioritization |
| 7.1.1.3.12 | Correct Handling of UL HARQ process / PUSCH Repetition Type B | Rel-16 | C134 | UEs supporting PUSCH repetition type B |
| 7.1.1.3.13 | Logical channel prioritization handling with Mapping restrictions / physical layer priority | Rel-16 | C180 | UEs supporting DCI UL Priority Indicator and LCH grant prioritisation |
| **7.1.1.3.14** | **Correct Handling of UL HARQ process / PUSCH Repetition Type A enhancement** |  |  |  |
| 7.1.1.3.14.1 | Correct Handling of UL HARQ process / PUSCH Repetition Type A enhancement / Increased maximum repetition number / dynamic grant | Rel-17 | C288 | UEs supporting increased maximum number of PUSCH Type A repetitions and dynamic indication of the number of repetitions for PUSCH |
| 7.1.1.3.14.2 | Correct Handling of UL HARQ process / PUSCH Repetition Type A enhancement / Increased maximum repetition number / configured grant | Rel-17 | C289 | UEs supporting increased maximum number of PUSCH Type A repetitions and PUSCH transmissions with configured grant |
| 7.1.1.3.14.3 | Correct Handling of UL HARQ process / PUSCH Repetition Type A enhancement / repetition based on available slots / dynamic grant | Rel-17 | C290 | UEs supporting PUSCH repetitions based on available slots and dynamic indication of the number of repetitions for PUSCH |
| 7.1.1.3.14.4 | Correct Handling of UL HARQ process / PUSCH Repetition Type A enhancement / repetition based on available slots / configured grant | Rel-17 | C291 | UEs supporting PUSCH repetitions based on available slots and PUSCH transmissions with configured grant |
| **7.1.1.3.15** | **Correct Handling of UL HARQ process / TBoMS procedure** |  |  |  |
| 7.1.1.3.15.1 | Correct Handling of UL HARQ process / TBoMS procedure / DG and CG based transmission | Rel-17 | C292 | UEs supporting TB processing over multi-slot PUSCH |
| 7.1.1.3.15.2 | Correct Handling of UL HARQ process / TBoMS procedure / Repetition of TBoMS | Rel-17 | C293 | UEs supporting repetition of TB processing over multi-slot PUSCH |
| **7.1.1.3.16** | **Correct Handling of UL grant / DRB configured with survival time** |  |  |  |
| 7.1.1.3.16.1 | Correct Handling of UL grant / DRB configured with survival time / Split DRB | Rel-17 | C256 | UEs supporting services with survival time and NR-DC and PDCP-duplication over split DRB |
| 7.1.1.3.16.2 | Correct Handling of UL grant / DRB configured with survival time / MCG or SCG DRB / Intra-band contiguous CA | Rel-17 | C257 | UEs supporting services with survival time and intra-band contiguous CA and CA-based PDCP duplication over MCG or SCG DRB |
| 7.1.1.3.16.3 | Correct Handling of UL grant / DRB configured with survival time / MCG or SCG DRB / Intra-band non-contiguous CA | Rel-17 | C258 | UEs supporting services with survival time and intra-band non-contiguous CA and CA-based PDCP duplication over MCG or SCG DRB |
| 7.1.1.3.16.4 | Correct Handling of UL grant / DRB configured with survival time / MCG or SCG DRB / Inter-band CA | Rel-17 | C259 | UEs supporting services with survival time and inter-band CA and CA-based PDCP duplication over MCG or SCG DRB |
| **7.1.1.4** | **Transport Size Selection** |  |  |  |
| **7.1.1.4.1** | **DL-SCH Transport Block Size Selection** |  |  |  |
| 7.1.1.4.1.1 | DL-SCH Transport Block Size selection / DCI format 1\_0 | Rel-15 | R | UEs supporting 5GS |
| 7.1.1.4.1.2 | Void |  |  |  |
| 7.1.1.4.1.3 | DL-SCH transport block size selection / DCI format 1\_1 / RA type 0/RA Type 1 / 2 Codewords enabled | Rel-15 | C64 | UEs supporting 5GS and The maximum number of spatial multiplexing layer(s) supported by the UE for DL reception is 8 Layers. 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 |
| 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 is 8 Layers. 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 and 256QAM for PUSCH |
| 7.1.1.4.1.5 | DL-SCH transport block size selection / DCI format 1\_2 | Rel-16 | C146 | Ues supporting monitoring DCI format 1\_2 for DL scheduling and monitoring DCI format 0\_2 for UL scheduling |
| **7.1.1.4.2** | **UL-SCH Transport Block Size Selection** |  |  |  |
| 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 |
| 7.1.1.4.2.2 | Void |  |  |  |
| 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 0\_1 / RA type 0/RA Type 1 / 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 |
| 7.1.1.4.2.6 | UL-SCH Transport Block Size selection / DCI format 0\_2 | Rel-16 | C146 | UEs supporting monitoring DCI format 1\_2 for DL scheduling and monitoring DCI format 0\_2 for UL scheduling |
| 7.1.1.4.2.7 | UL-SCH Transport Block Size selection / TBoMS procedure | Rel-17 | C292 | UEs supporting TB processing over multi-slot PUSCH |
| **7.1.1.5** | **Discontinuous reception** |  |  |  |
| 7.1.1.5.1 | 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 / Parameters configured by RRC | Rel-15 | C04 | UEs supporting 5GS and short DRX cycle |
| 7.1.1.5.4 | DRX operation / Short cycle configured / DRX command MAC control element reception | Rel-15 | C04 | UEs supporting 5GS and short DRX cycle |
| 7.1.1.5.5 | DRX operation / Short cycle configured / Long DRX command MAC control element reception | Rel-15 | C70 | UEs supporting 5GS and long DRX cycle and short DRX cycle |
| **7.1.1.6** | **Semi-Persistent Scheduling** |  |  |  |
| 7.1.1.6.1 | Correct handling of DL assignment / Semi-persistent case | Rel-15 | C17 | UEs supporting 5GS and PDSCH reception based on semi-persistent scheduling |
| 7.1.1.6.2 | Correct handling of UL grant / configured grant Type 1 | Rel-15 | C18 | UEs supporting 5GS and Type 1 PUSCH transmissions with configured grant |
| 7.1.1.6.3 | Correct handling of UL grant / configured grant Type 2 | Rel-15 | C19 | UEs supporting 5GS and Type 2 PUSCH transmissions with configured grant |
| 7.1.1.6.4 | Correct handling of DL assignment / Multi Semi-persistent configuration | Rel-16 | C113 | UEs supporting 5G Core and PDSCH reception based on semi-persistent scheduling and up to 8 configured SPS configurations in a BWP of a serving cell and up to 32 configured SPS configurations in a cell group |
| 7.1.1.6.5 | Correct handling of UL grant / Multi configured uplink grants | Rel-16 | C142 | UEs supporting 5G Core and PUSCH transmissions on multiple configured uplink grants |
| **7.1.1.7** | **Activation/Deactivation of SCells** |  |  |  |
| **7.1.1.7.1** | **Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer** |  |  |  |
| 7.1.1.7.1.1 | Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer / Intra-band Contiguous CA | Rel-15 | C44 | UEs supporting 5GS and intra-band contiguous CA |
|  |  |  | C44A | UEs supporting EN-DC and intra-band contiguous CA and EN-DC with 2 NR DL carriers |
| 7.1.1.7.1.2 | Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer / Inter-band CA | Rel-15 | C45 | UEs supporting 5GS and inter-band CA |
|  |  |  | C45A | UEs supporting EN-DC and inter-band CA and EN-DC with 2 NR DL carriers |
| 7.1.1.7.1.3 | Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer / Intra-band non-Contiguous CA | Rel-15 | C46 | UEs supporting 5GS and intra-band non-contiguous CA |
|  |  |  | C46A | UEs supporting EN-DC and intra-band non-contiguous CA and EN-DC with 2 NR DL carriers |
| **7.1.1.8** | **Bandwidth Part (BWP) operation** |  |  |  |
| 7.1.1.8.1 | Bandwidth Part (BWP) operation UL/DL | Rel-15 | C66 | UEs supporting 5GS and (DCI and timer based active BWP switching delay type1 or type2) and ((BWP adaptation upto2 NR FR1 FDD or NR FR1 TDD or NR FR2) or (BWP adaptation up to 4 NR FR1 FDD or NR FR1 TDD or NR FR2)) |
| 7.1.1.8.3 | Separate BWP / IDLE / RedCap | Rel-17 | C212 | UEs supporting 5G Core and RedCap |
| 7.1.1.8.4 | Separate BWP / RedCap-specific initial DL BWP without CORESET#0 / NCD-SSB | Rel-17 | C212 | UEs supporting 5G Core and RedCap |
| **7.1.1.9** | **MAC Reconfiguration and Reset** |  |  |  |
| 7.1.1.9.1 | MAC Reset | Rel-15 | R | UEs supporting 5GS |
| **7.1.1.10** | **Other Procedures** |  |  |  |
| 7.1.1.10.1 | DataInactivityTimer expiry | Rel-15 | C21 | UEs supporting 5G Core |
| 7.1.1.10.2 | Recommended Bit Rate | Rel-15 | C100 | UEs supporting 5G Core and MTSI speech and bit rate recommendation query message |
| 7.1.1.10.3 | NR CA / LBT failure on Scell / MAC CE indication | Rel-16 | C300 | UEs supporting 5G Core and NR CA with NR shared spectrum channel access and UL NR CA with 2 carriers |
| 7.1.1.10.4 | NTN / UE specific TA report | Rel-17 | C321 | UEs supporting 5G Core and NR NTN access and UE reporting of information related to TA pre-compensation |
| **7.1.1.11** | **NR Dual Connectivity** |  |  |  |
| 7.1.1.11.1 | DC power headroom reporting / PSCell activation and DL pathloss change reporting | Rel-15 | C80 | UEs supporting NR-DC |
| **7.1.1.12** | **UE Power Saving** |  |  |  |
| 7.1.1.12.1 | Void |  |  |  |
| 7.1.1.12.3 | DRX adaptation / UE wakeup indication | Rel-16 | C103 | UEs supporting 5GS and Long DRX Cycle and DRX adaptation |
| 7.1.1.12.4.1 | DRX adaptation / SCell dormancy indication / Intra-band Contiguous CA | Rel-16 | C118 | UEs supporting 5GS and Long DRX Cycle and DRX adaptation and SCell Dormancy indication outside active time and intra-band contiguous CA |
| 7.1.1.12.4.2 | DRX adaptation / SCell dormancy indication / Intra-band non Contiguous CA | Rel-16 | C119 | UEs supporting 5GS and Long DRX Cycle and DRX adaptation and SCell Dormancy indication outside active time and intra-band non-contiguous CA |
| 7.1.1.12.4.3 | DRX adaptation / SCell dormancy indication / Inter-band CA | Rel-16 | C120 | UEs supporting 5GS and Long DRX Cycle and DRX adaptation and SCell Dormancy indication outside active time and inter-band CA |
| **7.1.1.13** | **SDT** |  |  |  |
| 7.1.1.13.1 | RA Based SDT / 2-step RACH / Successful | Rel-17 | C232 | UEs Supporting 2-Step RACH and Random access SDT |
| 7.1.1.13.2 | RA Based SDT / 4-step RACH / Successful | Rel-17 | C233 | UEs supporting Random Access SDT |
| 7.1.1.13.3 | RA Based SDT / 2-step RACH / not complete / RA\_TYPE to 4-stepRA | Rel-17 | C232 | UEs Supporting 2-Step RACH and Random access SDT |
| 7.1.1.13.4 | RA Based SDT / 4-step RA based SDT / Time Alignment Timer expiry | Rel-17 | C233 | UEs supporting Random Access SDT |
| 7.1.1.13.5 | RA Based SDT/ CG Based SDT/ cg-SDT-TimeAlignmentTimer | Rel-17 | C269 | UEs supporting 5G Core and SDT via Configured Grant Type 1 in RRC\_INACTIVE state. |
| **7.1.2** | **RLC** |  |  |  |
| **7.1.2.2** | **RLC Unacknowledged Mode** |  |  |  |
| 7.1.2.2.1 | UM RLC / Segmentation and reassembly / 6-bit SN / Segmentation Info (SI) field | Rel-15 | C05 | UEs supporting 5GS and RLC UM with 6-bit length of RLC sequence number |
| 7.1.2.2.2 | UM RLC / Segmentation and reassembly / 12-bit SN / Segmentation Info (SI) field | Rel-15 | C06 | UEs supporting 5GS and RLC UM with 12-bit length of RLC sequence number |
| 7.1.2.2.3 | UM RLC / 6-bit SN / Correct use of sequence numbering | Rel-15 | C05 | UEs supporting 5GS and RLC UM with 6-bit length of RLC sequence number |
| 7.1.2.2.4 | UM RLC / 12-bit SN / Correct use of sequence numbering | Rel-15 | C06 | UEs supporting 5GS and RLC UM with 12-bit length of RLC sequence number |
| 7.1.2.2.5 | UM RLC / Receive Window operation and t-Reassembly expiry | Rel-15 | C02 | UEs supporting 5GS and RLC UM Mode |
| 7.1.2.2.5a | UM RLC / NR NTN / t-Reassembly expiry / t-ReassemblyExt-r17 configured | Rel-17 | C322 | UEs supporting 5G Core and NR NTN access and RLC UM Mode |
| 7.1.2.2.6 | UM RLC / RLC re-establishment procedure | Rel-15 | C02 | UEs supporting 5GS and RLC UM Mode |
| **7.1.2.3** | **RLC Acknowledged Mode** |  |  |  |
| 7.1.2.3.1 | AM RLC / 12-bit SN / Segmentation and reassembly / Segmentation Info (SI) field | Rel-15 | C07 | UEs supporting 5GS and RLC AM with 12-bit length of RLC sequence number |
| 7.1.2.3.2 | AM RLC / 18-bit SN / Segmentation and reassembly / Segmentation Info (SI) field | Rel-15 | C07A | UEs supporting 5GS and RLC AM with 18-bit length of RLC sequence number |
| 7.1.2.3.3 | AM RLC / 12-bit SN / Correct use of sequence numbering | Rel-15 | C07 | UEs supporting 5GS and RLC AM with 12-bit length of RLC sequence number |
| 7.1.2.3.4 | AM RLC / 18-bit SN / Correct use of sequence numbering | Rel-15 | C07A | UEs supporting 5GS and RLC and RLC AM with 18-bit length of RLC sequence number |
| 7.1.2.3.5 | AM RLC / 12-bit SN / Control of transmit window / Control of receive window | Rel-15 | C07 | UEs supporting 5GS and RLC AM with 12-bit length of RLC sequence number |
| 7.1.2.3.5a | AM RLC / 18-bit SN / Control of transmit window / Control of receive window | Rel-15 | C07A | UEs supporting 5GS and RLC AM with 18-bit length of RLC sequence number |
| 7.1.2.3.6 | AM RLC / Polling for status | Rel-15 | R | UEs supporting 5GS |
| 7.1.2.3.7 | AM RLC / Receiver status triggers | Rel-15 | R | UEs supporting 5GS |
| 7.1.2.3.8 | AM RLC / Reconfiguration of RLC parameters by upper layers | Rel-15 | R | UEs supporting 5GS |
| 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** | **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 | Rel-15 | C08 | UEs supporting 5GS and 12-bit length of PDCP sequence number |
| 7.1.3.1.2 | Maintenance of PDCP sequence numbers / User plane / 18-bit SN | Rel-15 | C08A | UEs supporting 5GS and 18-bit length of PDCP sequence number |
| **7.**1.**3.2** | **PDCP Integrity protection** |  |  |  |
| 7.1.3.2.1 | Integrity protection / Correct functionality of integrity algorithm SNOW3G / SRB / DRB | Rel-15 | R | UEs supporting 5GS |
| 7.1.3.2.2 | Integrity protection / Correct functionality of integrity algorithm AES / SRB / DRB | Rel-15 | R | UEs supporting 5GS |
| 7.1.3.2.3 | Integrity protection / Correct functionality of integrity algorithm ZUC / SRB / DRB | Rel-15 | C09 | UEs supporting 5GS and ZUC algorithm |
| 7.1.3.2.6 | Integrity protection / Correct functionality of UP integrity protection / multiple DRBs | Rel-17 | C286 | UEs supporting EN-DC and user plane integrity protection with EPS |
| **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 / In-order 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 |
| 7.1.3.4.3 | PDCP handover / DAPS handover / Status reporting / Intra-frequency | Rel-16 | C101 | UEs supporting 5G Core and intra-frequency DAPS handover |
| 7.1.3.4.4 | PDCP handover / DAPS handover / Status reporting / Inter-frequency | Rel-16 | C130 | UEs supporting 5G Core and inter-frequency DAPS handover |
| **7.1.3.5** | **PDCP other** |  |  |  |
| 7.1.3.5.1 | PDCP Discard | Rel-15 | C02 | UEs supporting 5GS and RLC UM Mode |
| 7.1.3.5.1a | NR NTN / PDCP Discard / discardTimerExt2 configured | Rel-17 | C322 | UEs supporting 5G Core and NR NTN access and RLC UM Mode |
| 7.1.3.5.2 | PDCP Uplink Routing / Split DRB | Rel-15 | C10 | UEs supporting EN-DC and UL transmission via both MCG path and SCG path for the split DRB |
|  |  |  | C97 | UEs supporting NR-DC and UL transmission via both MCG path and SCG path for the split DRB |
|  |  |  | C194 | UEs supporting NE-DC and UL transmission via both MCG path and SCG path for the split DRB |
| 7.1.3.5.3 | PDCP Data Recovery | Rel-15 | C01 | UEs supporting EN-DC |
|  |  |  | C80 | UEs supporting NR-DC |
| 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 EN-DC and PDCP duplication over split DRB |
|  |  |  | C98 | UEs supporting NR-DC and PDCP duplication over split DRB |
| 7.1.3.5.6.1 | PDCP Duplication / 3 RLC entities / Intra-band Contiguous CA | Rel-16 | C104 | UEs supporting 5GC and Intra-band contiguous CA and DL and UL NR CA with 3 carriers and PDCP duplication with more than two RLC entities |
| 7.1.3.5.6.2 | PDCP Duplication / 3 RLC entities / Intra-band non-Contiguous CA | Rel-16 | C181 | UEs supporting 5GC and Intra-band non-contiguous CA and DL and UL NR CA with 3 carriers and PDCP duplication with more than two RLC entities |
| 7.1.3.5.7 | Ethernet header compression and decompression / Correct functionality of ethernet header compression and decompression | Rel-16 | C105 | UEs supporting 5GS and RLC UM Mode and PDCP ethernet header compression |
| **7.1.3.6** | **PDCP UDC** |  |  |  |
| 7.1.3.6.1 | PDCP UDC / No dictionary | Rel-17 | C235 | UEs supporting 5GS and uplink data compression operation |
| 7.1.3.6.2 | PDCP UDC / Pre-defined dictionary | Rel-17 | C236 | UEs supporting 5GS and uplink data compression operation and UL data compression with SIP static dictionary |
| 7.1.3.6.3 | PDCP UDC / checksum error / Reset | Rel-17 | C235 | UEs supporting 5GS and uplink data compression operation |
| 7.1.3.6.4 | PDCP UDC/ Handover/ Intra-frequency | Rel-17 | C271 | UEs supporting 5GS and uplink data compression operation and continuation of uplink data compression protocol operation |
| 7.1.3.6.5 | PDCP UDC/ Handover/ Inter-frequency | Rel-17 | C271 | UEs supporting 5GS and uplink data compression operation and continuation of uplink data compression protocol operation |
| 7.1.3.6.6 | PDCP UDC/ RRC resume | Rel-17 | C271 | UEs supporting 5GS and uplink data compression operation and continuation of uplink data compression protocol operation |
| 7.1.3.6.7 | PDCP UDC/ RRC reestablishment | Rel-17 | C271 | UEs supporting 5GS and uplink data compression operation and continuation of uplink data compression protocol operation |
| 7.1.3.6.8 | PDCP UDC/ PSCell addition / SCG DRB with UDC configuration/ NR-DC | Rel-17 | C272 | UEs supporting NR-DC and uplink data compression operation |
| 7.1.3.6.9 | PDCP UDC/ PSCell addition / SCG DRB with UDC configuration/ NE-DC | Rel-17 | C273 | UEs supporting NE-DC and uplink data compression operation |
| **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 |

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 |  |  |  |  |
| 7.1 |  |  |  |  |
| 7.1.1 |  |  |  |  |
| 7.1.1.1 |  |  |  |  |
| 7.1.1.1.4 | pc\_csi\_RS\_CFRA\_ForHO |  |  |  |
| **7.1.1.3** |  |  |  |  |
| 7.1.1.3.2b | pc\_configuredUL\_GrantType1 |  |  |  |
| **7.1.1.4** |  |  |  |  |
| **7.1.1.4.1** |  |  |  |  |
| 7.1.1.4.1.3 | pc\_dynamicSwitchRA\_Type0\_1\_PDSCH |  |  |  |
| 7.1.1.4.1.4 | pc\_dynamicSwitchRA\_Type0\_1\_PDSCH |  |  |  |
| **7.1.1.4.2** |  |  |  |  |
| 7.1.1.4.2.3 | pc\_dynamicSwitchRA\_Type0\_1\_PUSCH |  |  |  |
| 7.1.1.4.2.4 | pc\_dynamicSwitchRA\_Type0\_1\_PUSCH |  |  |  |
| **7.1.1.6** |  |  |  |  |
| 7.1.1.6.4 | pc\_um\_WithShortSN |  |  |  |
| **7.1.1.7** |  |  |  |  |
| **7.1.1.7.1** |  |  |  |  |
| 7.1.1.7.1.1 | pc\_UL\_NR\_CA\_2CC or pc\_EN\_DC\_NR\_UL\_2CC |  |  |  |
| 7.1.1.7.1.2 | pc\_UL\_NR\_CA\_2CC or pc\_EN\_DC\_NR\_UL\_2CC |  |  |  |
| 7.1.1.7.1.3 | pc\_UL\_intra\_non\_contiguous\_CA\_NR\_FR1\_Class\_(2A) or pc\_UL\_intra\_non\_contiguous\_CA\_NR\_FR2\_Class\_(2A) |  |  |  |
| **7.1.1.12** |  |  |  |  |
| 7.1.1.12.3 |  |  |  | Rel-15 E-UTRA |
| **7.1.1.13** |  |  |  |  |
| 7.1.1.13.1 | pc\_logicalChannelSR\_DelayTimer |  |  |  |
| 7.1.1.13.2 | pc\_logicalChannelSR\_DelayTimer |  |  |  |
| 7.1.1.13.5 | pc\_ra\_SDT\_r17 |  |  |  |
| **7.1.2** |  |  |  |  |
| **7.1.2.2** |  |  |  |  |
| 7.1.2.2.5 | pc\_um\_WithShortSN |  |  |  |
| 7.1.2.2.6 | pc\_um\_WithShortSN |  |  |  |
| **7.1.3** |  |  |  |  |
| 7.1.3.2.1 | pc\_srb3 |  |  |  |

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

| Clause | TC Title | Release | | Applicability Condition | Applicability Comment |
| --- | --- | --- | --- | --- | --- |
| **8** | **RRC** |  | |  |  |
| **8.1** | **NR RRC** |  | |  |  |
| **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 |
| **8.1.1.1a** | **Paging Early Indication and Subgrouping** |  | |  |  |
| 8.1.1.1a.1 | Paging Early Indication with Subgrouping / RRC\_IDLE / lastUsedCellOnly not configured / Subgroup ID selection | Rel-17 | | C224 | UEs supporting 5G Core and PEI |
| 8.1.1.1a.2 | Paging Early Indication with Subgrouping / RRC\_INACTIVE / lastUsedCellOnly configured | Rel-17 | | C239 | UEs supporting 5G Core and RRC\_INACTIVE and PEI |
| 8.1.1.1a.3 | Paging Early Indication without Subgrouping / RRC\_IDLE | Rel-17 | | C224 | UEs supporting 5G Core and PEI |
| **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 |
| 8.1.1.2.2 | Void |  | |  |  |
| 8.1.1.2.3 | RRC connection establishment / RRC Reject with wait time | Rel-15 | | C21 | UEs supporting 5G Core |
| 8.1.1.2.4 | RRC connection establishment / Extended value, spare fields and non-critical extensions in SI | Rel-15 and Rel-16 only | | 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-UTRA | 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 |
| 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 | Void |  | |  |  |
| 8.1.1.3.7 | RRC connection release / Success / Deprioritisation / Frequency / T325 expiry | Rel-15 | | C133 | UEs supporting 5G Core and RRC connection release with Deprioritisation |
| 8.1.1.3.7a | RRC connection release / Success / Deprioritisation / NR / T325 expiry | Rel-15 | | C148 | UEs supporting 5G Core and E-UTRA and RRC connection release with Deprioritisation |
| 8.1.1.3.7b | RRC connection release / Success / Deprioritisation / Deletion of Stored deprioritisation request | Rel-15 | | C161 | UEs supporting 5G Core and RRC connection release with Deprioritisation and ManualModeNetworkSelectionException |
| 8.1.1.3.8 | RRC connection release / Redirection to another NR frequency / MPS Priority Indication | Rel-16 | | C274 | UEs supporting 5G Core and RRC Connection release with MPS priority indication |
| 8.1.1.3.9 | RRC connection release / Success / With slice specific cell reselection information | Rel-17 | | C240 | UEs supporting 5G Core and slice based cell reselection |
| 8.1.1.3.10 | RRC connection release / Redirection from NR to E-UTRA / MPS Priority Indication | Rel-16 | | C314 | UEs supporting 5G Core and E-UTRA and RRC Connection release with MPS priority indication |
| **8.1.1.4** | **RRC resume** |  | |  |  |
| 8.1.1.4.1 | RRC resume / Suspend-Resume / RNA update / Success | Rel-15 | | C109 | UEs supporting 5G Core and RRC\_INACTIVE |
| 8.1.1.4.2 | RRC resume / Suspend-Resume / RRC setup / T319 expiry | Rel-15 | | C109 | UEs supporting 5G Core and RRC\_INACTIVE |
| 8.1.1.4.3 | Void |  | |  |  |
| 8.1.1.4.4 | RRC resume / Suspend-Resume / RRC reconfiguration / Active MCG SCell addition / Intra-band Contiguous CA | Rel-16 | | C154 | UEs supporting 5G Core and intra-band contiguous CA and RRC\_INACTIVE and direct NR MCG SCell activation |
| 8.1.1.4.5 | RRC resume / Suspend-Resume / RRC reconfiguration / Active MCG SCell addition / Intra-band non-Contiguous CA | Rel-16 | | C155 | UEs supporting 5G Core and intra-band non-contiguous CA and RRC\_INACTIVE and direct NR MCG SCell activation |
| 8.1.1.4.6 | RRC resume / Suspend-Resume / RRC reconfiguration / Active MCG SCell addition / Inter-band CA | Rel-16 | | C156 | UEs supporting 5G Core and inter-band CA and RRC\_INACTIVE and direct NR MCG SCell activation |
| 8.1.1.4.7 | RRC resume / Suspend-Resume / RRC reconfiguration / Active SCG SCell addition / Intra-band Contiguous CA | Rel-16 | | C221 | UEs supporting 5G Core and intra-band contiguous CA and RRC\_INACTIVE and direct NR SCG SCell activation and NR-DC |
| 8.1.1.4.8 | RRC resume / Suspend-Resume / RRC reconfiguration / Active SCG SCell addition / Intra-band non-Contiguous CA | Rel-16 | | C222 | UEs supporting 5G Core and intra-band non-contiguous CA and RRC\_INACTIVE and direct NR SCG SCell activation and NR-DC |
| 8.1.1.4.9 | RRC resume / Suspend-Resume / RRC reconfiguration / Active SCG SCell addition / Inter-band CA | Rel-16 | | C223 | UEs supporting 5G Core and inter-band CA and RRC\_INACTIVE and direct NR SCG SCell activation and NR-DC |
| **8.1.2** | **RRC reconfiguration** |  | |  |  |
| **8.1.2.1** | **Radio bearer establishment / reconfiguration / release** |  | |  |  |
| 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 | Void |  | |  |  |
| 8.1.2.1.4 | RRC reconfiguration / Dedicated RLF timer | Rel-15 | | C21 | UEs supporting 5GCore |
| **8.1.2.1.5** | **NR CA / RRC reconfiguration / SCell addition / modification / release / Success** |  | |  |  |
| 8.1.2.1.5.1 | NR CA / RRC reconfiguration / SCell addition / modification / release / Success / Intra-band Contiguous CA | Rel-15 | | C41 | UEs supporting 5G Core and intra-band contiguous CA |
| 8.1.2.1.5.2 | NR CA / RRC reconfiguration / SCell addition / modification / release / Success / Inter-band CA | Rel-15 | | C42 | UEs supporting 5G Core 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 | | C43 | UEs supporting 5G Core and intra-band non-contiguous CA |
| 8.1.2.1.5.4 | NR CA / RRC reconfiguration / SCell addition / modification / release / Success / Active MCG SCell addition / Intra-band Contiguous CA | Rel-16 | | C226 | UEs supporting 5G Core and direct NR MCG SCell activation and intra-band contiguous CA |
| 8.1.2.1.5.5 | NR CA / RRC reconfiguration / SCell addition / modification / release / Success / Active MCG SCell addition / Intra-band non-contiguous CA | Rel-16 | | C227 | UEs supporting 5G Core and direct NR MCG SCell activation and intra-band non-contiguous CA |
| 8.1.2.1.5.6 | NR CA / RRC reconfiguration / SCell addition / modification / release / Success / Active MCG SCell addition / Inter-band CA | Rel-16 | | C228 | UEs supporting 5G Core and direct NR MCG SCell activation and inter-band CA |
| 8.1.2.1.6 | RRC reconfiguration/ MUSIM / MUSIM- gap / Addition / Modification / Release | Rel-17 | | C246 | UEs supporting 5G Core and MUSIM gap feature |
| **8.1.3** | **Measurement configuration control and reporting** |  | |  |  |
| **8.1.3.1** | **Intra NR measurements** |  | |  |  |
| 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 Neighbour 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 Neighbour 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 Neighbour NR cell / Inter-band measurements | Rel-15 | | C94 | UEs supporting 5G Core and multiple NR bands |
| 8.1.3.1.5 | Measurement configuration control and reporting / Event A4 / Measurement of Neighbour 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 Neighbour 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 Neighbour NR cell / Inter-band measurements | Rel-15 | | C94 | UEs supporting 5G Core and multiple NR bands |
| 8.1.3.1.8 | Measurement configuration control and reporting / Event A5 / Measurement of Neighbour 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 Neighbour 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 Neighbour NR cell / Inter-band measurements | Rel-15 | | C94 | UEs supporting 5G Core and multiple NR bands |
| 8.1.3.1.11 | Measurement configuration control and reporting / Intra NR measurements / Two simultaneous events A3 (intra and inter-frequency measurements) / RSRQ based measurements | Rel-15 | | C21 | UEs supporting 5GCore |
| 8.1.3.1.12 | Measurement configuration control and reporting / Intra NR measurements / Two simultaneous events A5 (intra and inter-frequency 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 Neighbour 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 and CSI-RSRQmeasurement |
| 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 Neighbour 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 and CSI-RSRQmeasurement |
| 8.1.3.1.15 | Void |  | |  |  |
| 8.1.3.1.15A | Measurement configuration control and reporting / Intra NR measurements / Exclude-listed cells | Rel-15 | | C21 | UEs supporting 5G Core |
| 8.1.3.1.16 | Measurement configuration control and reporting / Intra NR measurements / Allow-listed cells | 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 |
| 8.1.3.1.19 | Measurement configuration control and reporting / Inter-frequency measurements/ SFTD | Rel-15 | | C150 | UEs supporting 5G Core and SFTD measurements between NR PCell and NR neighbour cell |
| 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 / Periodic reporting / Continuation of the measurements after RRC Resume | Rel-15 | | C21 | UEs supporting 5G Core |
| 8.1.3.1.26 | Measurement configuration control and reporting / Event D1 / Measurement of Neighbour NR cell | Rel-17 | | C323 | UEs supporting 5G Core and NR NTN access and Event D1 |
| **8.1.3.2** | **Inter-RAT measurements** |  | |  |  |
| 8.1.3.2.1 | 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 reporting / Inter-RAT measurements / Event B2 / Measurement of E-UTRA cells / SINR based measurements | Rel-15 | | C50 | UEs supporting 5G Core and Inter-RAT E-UTRA measurements and Event B triggered reporting and E-UTRA RS-SINR measurements |
| 8.1.3.2.5 | Void |  | |  |  |
| 8.1.3.2.6 | Measurement configuration control and reporting / Inter-RAT measurements / Event B1 / NR to UTRA | Rel-16 | | C127 | UEs supporting 5G Core and UTRA and NR to UTRA-FDD CELL\_DCH CS handover |
| 8.1.3.2.7 | Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / NR to UTRA | Rel-16 | | C127 | UEs supporting 5G Core and UTRA and NR to UTRA-FDD CELL\_DCH CS handover |
| 8.1.3.2.8 | Measurement configuration control and reporting / Inter-RAT measurements / Periodic reporting / NR to UTRA | Rel-16 | | C127 | UEs supporting 5G Core and UTRA and NR to UTRA-FDD CELL\_DCH CS handover |
| **8.1.3.3** | **Measurement for self-optimized networks** |  | |  |  |
| 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 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. |
| 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. |
| **8.1.3.4** | **Measurement relaxation** |  | |  |  |
| 8.1.3.4.1 | Void |  | |  |  |
| **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 | Void |  | |  |  |
| 8.1.4.1.5 | Intra NR handover / Failure / Re-establishment successful | 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 Change and SCell addition / SCell release** |  | |  |  |
| 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 | | C41 | 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 | | C42 | 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 | | C43 | 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 | | C41 | 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 | | C42 | 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 | | C43 | 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 | | C41 | 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 | | C42 | 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 | | C43 | UEs supporting 5G Core and intra-band non-contiguous CA |
| 8.1.4.1.10 | eCall Only mode / Intra NR handover / Success / Inter-frequency | Rel-16 | | C184 | UEs supporting 5G Core and IMS eCall Only type of emergency services over 5GS and Automatic type of eCall initiation |
| **8.1.4.2** | **Inter-RAT handover** |  | |  |  |
| **8.1.4.2.1** | **Inter-RAT handover from NR** |  | |  |  |
| 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 EN-DC / Success | Rel-16 | | C96 | UEs supporting 5G Core and EN-DC and inter-RAT Handover from NR to EN-DC |
| **8.1.4.2.2** | **Inter-RAT handover to NR** |  | |  |  |
| 8.1.4.2.2.1 | Inter-RAT handover / From E-UTRA to NR / Success | Rel-15 | | C99 | UEs supporting 5GS and E-UTRA and (inter-RAT Handover to NR FR1 TDD from EUTRA connected to EPC or inter-RAT Handover to NR FR1 FDD from EUTRA connected to EPC or inter-RAT Handover to NR FR2 TDD from EUTRA connected to EPC) |
| **8.1.4.3** | **DAPS handover** |  | |  |  |
| 8.1.4.3.1 | DAPS handover with key change / Success / Intra-frequency | Rel-16 | | C101 | UEs supporting 5G Core and intra-frequency DAPS handover |
| 8.1.4.3.2 | DAPS handover / HO Failure and source link available / HO Success and RLF in source / Intra-frequency | Rel-16 | | C101 | UEs supporting 5G Core and intra-frequency DAPS handover |
| 8.1.4.3.4 | DAPS handover with key change / Success / Inter-frequency | Rel-16 | | C130 | UEs supporting 5G Core and inter-frequency DAPS handover |
| 8.1.4.3.5 | DAPS handover / HO Failure and source link available / HO Success and RLF in source / Inter-frequency | Rel-16 | | C130 | UEs supporting 5G Core and inter-frequency DAPS handover |
| **8.1.4.4** | **Conditional handover** |  | |  |  |
| 8.1.4.4.1 | Conditional handover / Success / A3 / A5 / A3+A5 | Rel-16 | | C116 | UEs supporting 5G Core and conditional handover and supporting 2 trigger events for same execution condition |
| 8.1.4.4.2 | Conditional handover / modify conditional handover configuration | Rel-16 | | C115 | UEs supporting 5G Core and conditional handover |
| 8.1.4.4.3 | Conditional handover / Failure | Rel-16 | | C117 | UEs supporting 5G Core and conditional handover and conditional handover during re-establishment procedure when the selected cell is configured as candidate cell for condition handover |
| 8.1.4.4.4 | Conditional handover / legacy Handover / legacy Handover Failure | Rel-16 | | C115 | UEs supporting 5G Core and conditional handover |
| **8.1.5** | **RRC others** |  | |  |  |
| **8.1.5.1** | **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** |  | |  |  |
| 8.1.5.2.1 | Void |  | |  |  |
| 8.1.5.2.2 | SI change / Notification of BCCH modification / Short message for SI update in NR RRC\_CONNECTED state | Rel-15 | | C21 | UEs supporting 5G Core |
| 8.1.5.2.3 | eDRX / IDLE / Paging for notification of BCCH modification | Rel-17 | | C210 | UEs supporting 5G Core and eDRX |
| **8.1.5.3** | **PWS notification** |  | |  |  |
| 8.1.5.3.1 | PWS notification / PWS reception in NR RRC\_IDLE state | Rel-15 | | C35 | UEs supporting 5G Core and (ETWS reception or CMAS reception) |
| 8.1.5.3.2 | PWS notification / PWS reception in NR RRC\_INACTIVE state | Rel-15 | | C111 | UEs supporting 5G Core and (ETWS reception or CMAS reception) and RRC\_INACTIVE |
| 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) |
| **8.1.5.4** | **Counter check** |  | |  |  |
| 8.1.5.4.1 | Counter check / Reception of CounterCheck message by the UE | Rel-15 | | C21 | UEs supporting 5G Core |
| **8.1.5.5** | **Redirection to NR** |  | |  |  |
| 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 | Void |  | |  |  |
| **8.1.5.6.5** | **NR CA / No Radio Link Failure on SCell / 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 | | C41 | UEs supporting 5G Core and intra-band contiguous CA |
| 8.1.5.6.5.2 | NR CA / No Radio Link Failure on SCell / RRC Connection Continues on PCell / Inter-band CA | Rel-15 | | C42 | UEs supporting 5G Core and inter-band CA |
| 8.1.5.6.5.3 | NR CA / No Radio Link Failure on SCell / RRC Connection Continues on PCell / Intra-band non-Contiguous CA | Rel-15 | | C43 | UEs supporting 5G Core and intra-band non-contiguous CA |
| **8.1.5.6.6** | **Radio link failure / Shared spectrum / LBT Failure** |  | |  |  |
| 8.1.5.6.6.1 | Radio link failure / LBT Failure | Rel-16 | | C217 | UEs supporting 5G Core and NR standalone shared spectrum channel access |
| **8.1.5.7** | **Failure information** |  | |  |  |
| **8.1.5.7.1** | **Failure information / RLC failure / MCG** |  | |  |  |
| 8.1.5.7.1.1 | Failure information / RLC failure / MCG / Intra-band Contiguous CA | Rel-15 | | C72 | UEs supporting 5G Core and intra-band contiguous CA and CA-based PDCP duplication over MCG or SCG DRB and UL NR CA with 2 carriers |
| 8.1.5.7.1.2 | Failure information / RLC failure / MCG / Inter-band CA | Rel-15 | | C73 | UEs supporting 5G Core and inter-band CA and CA-based PDCP duplication over MCG or SCG DRB and UL NR CA with 2 carriers |
| 8.1.5.7.1.3 | Failure information / RLC failure / MCG / Intra-band non Contiguous CA | Rel-15 | | C74 | UEs supporting 5G Core and intra-band non-contiguous CA and CA-based PDCP duplication over MCG or SCG DRB and UL NR CA with 2 carriers |
| **8.1.5.8** | **Processing delay** |  | |  |  |
| 8.1.5.8.1 | Processing delay / RRC\_Idle to RRC\_Connected / RRC\_Inactive to RRC\_Connected / Success / Latency check | Rel-15 | | C21 | UEs supporting 5G Core |
| **8.1.5.8.2** | **Processing delay / RRC\_Inactive to RRC\_Connected / Success / Latency check / SCell addition** |  | |  |  |
| 8.1.5.8.2.1 | Processing delay / RRC\_Inactive to RRC\_Connected / Success / Latency check / SCell addition / Intra-band Contiguous CA | Rel-15 | | C41 | UEs supporting 5G Core and intra-band contiguous CA |
| 8.1.5.8.2.2 | Processing delay / RRC\_Inactive to RRC\_Connected / Success / Latency check / SCell addition / Inter-band CA | Rel-15 | | C42 | UEs supporting 5G Core and inter-band CA |
| 8.1.5.8.2.3 | Processing delay / RRC\_Inactive to RRC\_Connected / Success / Latency check / SCell addition / Intra-band non-Contiguous CA | Rel-15 | | C43 | UEs supporting 5G Core and intra-band non-contiguous CA |
| **8.1.5.9** | **Message Segment transfer** |  | |  |  |
| 8.1.5.9.1 | UECapabilityInformation / UL segment transfer | Rel-16 | | C129 | UEs supporting 5G Core and RRC message segmentation in the UL |
| 8.1.5.9.2 | RRC reconfiguration / DL segment transfer | Rel-16 | | C207 | UEs supporting 5G core and reception of segmented DL RRC messages. |
| 8.1.5.9.3 | RRC resume / DL segment transfer | Rel-16 | | C207 | UEs supporting 5G core and reception of segmented DL RRC messages. |
| **8.1.5.10** | **UE Assistance Information** |  | |  |  |
| 8.1.5.10.1 | UE Assistance Information/ Release Preference | Rel-16 | | C145 | UEs supporting 5G Core and release preference assistance information |
| 8.1.5.10.2 | UE Assistance Information / MUSIM | Rel-17 | | C294 | UEs supporting 5G Core and Multi-SIM features and MUSIM related assistance information |
| 8.1.5.10.3 | UE Assistance Information / MUSIM / Leaving RRC\_CONNECTED / T346g expires | Rel-17 | | C245 | UEs supporting 5G Core and Multi-SIM features and release preference assistance information |
| 8.1.5.10.4 | UE Assistance Information / RRM measurement relaxation / RedCap | Rel-17 | | C209 | UEs supporting 5G Core and RedCap and relaxed RRM measurements in RRC\_CONNECTED and initiating UE Assistance Information procedure immediately upon change of its fulfilment status for RRM measurement relaxation criterion for connected mode. |
| **8.1.5.11** | **Idle/Inactive Measurements** |  | |  |  |
| 8.1.5.11.1 | Idle/Inactive Measurements / Idle mode / SIB11 configuration / Measurement of NR cells | Rel-16 | | C190 | UEs supporting 5G Core and Idle/Inactive Measurements |
| 8.1.5.11.2 | Idle/Inactive Measurements / Idle mode / RRCRelease configuration / Measurement of NR cells | Rel-16 | | C190 | UEs supporting 5G Core and Idle/Inactive Measurements |
| 8.1.5.11.3 | Idle/Inactive measurements / Inactive mode / SIB11 configuration / Measurement of NR cells | Rel-16 | | C192 | UEs supporting 5G Core and RRC\_INACTIVE and Idle/Inactive Measurements |
| 8.1.5.11.4 | Idle/Inactive measurements / Inactive mode / RRCRelease configuration / Measurement of NR cells | Rel-16 | | C192 | UEs supporting 5G Core and RRC\_INACTIVE and Idle/Inactive Measurements |
| **8.1.5.12** | **Partial Sounding** |  | |  |  |
| 8.1.5.12.1 | Partial Sounding / RRC\_CONNECTED / RRCReconfiguration | Rel-17 | | C315 | UEs supporting 5G Core and partial frequency sounding for SRS with frequency hopping |
| **8.1.5.13** | **Small Data Transmission** |  | |  |  |
| 8.1.5.13.1 | RRC SDT/CG based SDT/Success | Rel-17 | | C269 | UEs supporting 5G Core and SDT via Configured Grant Type 1 in RRC\_INACTIVE state |
| 8.1.5.13.2 | RRC SDT / CG based SDT ongoing / Data on non-SDT Radio Bearers | Rel-17 | | C317 | UEs supporting 5G Core and SDT via Configured Grant Type 1 in RRC\_INACTIVE state and SMS over NAS |
| 8.1.5.13.3 | RRC SDT / CG based SDT / SDT-SRB2-Indication | Rel-17 | | C270 | UEs supporting 5G Core and SRB SDT and SDT via Configured Grant Type 1 in RRC\_INACTIVE state |
| **8.1.6** | **SON and MDT support for NR** |  | |  |  |
| **8.1.6.1** | **Intra NR MDT** |  | |  |  |
| **8.1.6.1.1** | **Immediate MDT** |  | |  |  |
| 8.1.6.1.1.1 | Immediate MDT / Measurement reporting / Location information | Rel-16 | | C126 | UEs supporting 5G Core and equipped with a GNSS or A-GNSS receiver to provide detailed location information |
| 8.1.6.1.1.2 | Immediate MDT / Measurement / Latency metrics for UL PDCP Packet Delay per DRB | Rel-16 | | C122 | UEs supporting 5G Core and UL PDCP Packet Delay per DRB |
| **8.1.6.1.2** | **Logged MDT** |  | |  |  |
| 8.1.6.1.2.1 | Logged MDT / RRC\_IDLE / Logging and reporting / Intra-frequency measurement | Rel-16 | | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.2 | Logged MDT / RRC\_INACTIVE / Logging and reporting / Inter-frequency measurement | Rel-16 | | C125 | UEs supporting 5G core and RRC\_INACTIVE and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.3 | Logged MDT / RRC\_IDLE / Logging and reporting / Limiting area scope | Rel-16 | | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.4 | logged MDT/ RRC\_IDLE / Logging and reporting / periodic measurement trigger | Rel-16 | | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.5 | logged MDT/ RRC\_IDLE / Logging and reporting / event-based trigger | Rel-16 | | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.6 | logged MDT/ RRC\_IDLE / Logging and reporting / event-based trigger / out-of-coverage | Rel-16 | | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.7 | Logged MDT / RRC\_IDLE / Logging and reporting / Reporting at NR re-establishment | Rel-16 | | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.8 | Logged MDT / Logging and reporting / Reporting at RRC reconfiguration | Rel-16 | | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.9 | Logged MDT / Location information | Rel-16 | | C124 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE and equipped with a GNSS receiver to provide detailed location information. |
| 8.1.6.1.2.10 | Logged MDT / Maintaining logged measurement configuration / UE mobility | Rel-16 | | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.11 | Logged MDT / Maintaining logged measurement configuration / UE state transitions | Rel-16 | | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.12 | Logged MDT / Release of logged MDT measurement configuration / Expire of duration timer | Rel-16 | | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.13 | Logged MDT / Release of logged MDT measurement configuration / Reception of new logged measurement configuration | Rel-16 | | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.1.2.14 | Logged MDT / RRC\_IDLE / Logging and reporting / IDC mechanism | Rel-17 | | C266 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE and IDC mechanism and FR1 Band n40 |
| 8.1.6.1.2.15 | Logged MDT / RRC\_IDLE / early measurements | Rel-17 | | C267 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE and early measurements |
| 8.1.6.1.2.16 | Logged MDT / RRC\_IDLE / sig-based logged MDT | Rel-17 | | C123 | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| **8.1.6.1.3** | **Radio Link Failure report** |  | |  |  |
| 8.1.6.1.3.1 | Radio Link Failure / Reporting of Intra-frequency measurements | Rel-16 | | C21 | UEs supporting 5G Core |
| 8.1.6.1.3.2 | Radio Link Failure / Reporting of Inter-frequency measurements | Rel-16 | | C21 | UEs supporting 5G Core |
| 8.1.6.1.3.3 | Radio Link Failure / Reporting at RRC connection establishment and reestablishment | Rel-16 | | C21 | UEs supporting 5G Core |
| 8.1.6.1.3.4 | Radio Link Failure / Reporting at NR handover | Rel-16 | | C21 | UEs supporting 5G Core |
| 8.1.6.1.3.5 | Radio Link Failure / Location information | Rel-16 | | C126 | UEs supporting 5G Core and equipped with a GNSS or A-GNSS receiver to provide detailed location information |
| 8.1.6.1.3.6 | Radio Link Failure / RACH failure report | Rel-16 | | C21 | UEs supporting 5G Core |
| 8.1.6.1.3.7 | Radio Link Failure / Logging and reporting / Reporting at intra NR handover / PLMN list | Rel-16 | | C21 | UEs supporting 5G Core |
| 8.1.6.1.3.8 | Radio Link Failure / Logging and reporting / Event A3 / CHO | Rel-17 | | C301 | UEs supporting 5G Core and RLF-Report for conditional handover |
| 8.1.6.1.3.9 | Radio Link Failure / Logging and reporting / Event A5 / CHO | Rel-17 | | C301 | UEs supporting 5G Core and RLF-Report for conditional handover |
| 8.1.6.1.3.10 | Radio Link Failure / Logging and reporting / DAPS HO | Rel-17 | | C302 | UEs supporting 5G Core and RLF-Report for DAPS handover. |
| 8.1.6.1.3.11 | Radio Link Failure / Logging and reporting / Successful Handovers Reports | Rel-17 | | C303 | UEs supporting 5G Core and the storage and delivery of Successful Handover Report. |
| **8.1.6.1.4** | **Connection Establishment Failure** |  | |  |  |
| 8.1.6.1.4.1 | Connection Establishment Failure / Logging and reporting / T300 expiry | Rel-16 | | C21 | UEs supporting 5G Core |
| 8.1.6.1.4.2 | Connection Establishment Failure / Logging and reporting / RRC Resume | Rel-16 | | C109 | UEs supporting 5G Core and RRC\_INACTIVE. |
| 8.1.6.1.4.3 | Connection Establishment Failure / Logging and reporting / Reporting at intra-NR handover | Rel-16 | | C21 | UEs supporting 5G Core |
| 8.1.6.1.4.4 | Connection Establishment Failure / Logging and reporting / Reporting at RRC connection re-establishment | Rel-16 | | C21 | UEs supporting 5G Core |
| 8.1.6.1.4.5 | Connection Establishment Failure / Logging and reporting / Location Information | Rel-16 | | C126 | UEs supporting 5G Core and equipped with a GNSS or A-GNSS receiver to provide detailed location information. |
| 8.1.6.1.4.6 | Connection Establishment Failure / Logging and reporting / Reporting of Intra-frequency measurements | Rel-16 | | C21 | UEs supporting 5G Core. |
| 8.1.6.1.4.7 | Connection Establishment Failure / Logging and reporting / Reporting of Inter-frequency measurements | Rel-16 | | C21 | UEs supporting 5G Core |
| 8.1.6.1.4.8 | Connection Establishment Failure / Logging and reporting / RACH failure report | Rel-16 | | C136 | UEs supporting 5G Core and delivery of rachReport upon request from the network |
| 8.1.6.1.4.9 | Connection Establishment Failure / Logging and reporting / T300 expiry / Multiple CEF reports | Rel-17 | | C250 | UEs supporting 5G Core and storage and delivery of multiple CEF report upon request from the network |
| **8.1.6.2** | **Inter-RAT MDT** |  | |  |  |
| 8.1.6.2.1 | Inter-RAT MDT / Immediate MDT / Periodic reporting of E-UTRAN/ Location information | Rel-16 | | C143 | UEs supporting 5G Core and E-UTRA and standalone GNSS receiver to provide detailed location information |
| 8.1.6.2.2 | Inter-RAT MDT / Logged MDT / E-UTRA Inter-RAT measurement, logging and reporting | Rel-16 | | C144 | UEs supporting 5G Core and E-UTRA and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| 8.1.6.2.3 | Inter-RAT MDT / Radio Link Failure / Reporting at E-UTRA Inter-RAT handover | Rel-16 | | C32a | UEs supporting 5G Core and E-UTRA and logged MDT |
| 8.1.6.2.4 | Inter-RAT MDT / Connection Establishment Failure / Logging and reporting / Reporting of E-UTRA measurement | Rel-16 | | C32a | UEs supporting 5G Core and E-UTRA and logged MDT |
| **8.1.6.3** | **Inter-System MDT** | |  |  |  | |
| **8.1.6.3.1** | **Inter-System MDT / Immediate MDT** | |  |  |  | |
| 8.1.6.3.1.1 | Inter-System MDT / Immediate MDT / Measurement reporting / Bluetooth measurement collection | | Rel-16 | C140 | UEs supporting 5G core and Bluetooth Measurement Collection in Immediate MDT | |
| 8.1.6.3.1.2 | Inter-System MDT / Immediate MDT / Measurement reporting / WLAN measurement collection | | Rel-16 | C141 | UEs supporting 5G core and WLAN Measurement Collection in Immediate MDT | |
| 8.1.6.3.1.3 | Inter-System MDT / Immediate MDT / Measurement reporting / Sensor measurement collection | | Rel-16 | C139 | UEs supporting 5G Core and collection of sensor information such as Barometric pressure, UE speed, and UE orientation information as defined in TS 37.355. | |
| **8.1.6.3.2** | **Inter-System MDT / Logged MDT** | |  |  |  | |
| 8.1.6.3.2.1 | Inter-System MDT / Logged MDT / Logging and reporting / Bluetooth measurement collection | | Rel-16 | C137 | UEs supporting 5G Core and logged MDT and Bluetooth measurements in RRC\_IDLE and RRC\_INACTIVE state | |
| 8.1.6.3.2.2 | Inter-System MDT / Logged MDT / Logging and reporting / WLAN measurement collection | | Rel-16 | C138 | UEs supporting 5G Core and logged MDT and WLAN measurements in RRC\_IDLE and RRC\_INACTIVE state | |
| 8.1.6.3.2.3 | Inter-System MDT / Logged MDT / Logging and reporting / Sensor measurement collection | | Rel-16 | C139a | UEs supporting 5G Core and collection of sensor information such as Barometric pressure, UE speed, and UE orientation information as defined in TS 37.355 and logged MDT. | |
| **8.1.6.3.3** | **Inter-System MDT / Radio Link Failure** | |  |  |  | |
| 8.1.6.3.3.1 | Inter-System MDT / Radio Link Failure / Logging and reporting / Bluetooth measurement collection | | Rel-16 | C137 | UEs supporting 5G Core and logged MDT and Bluetooth measurements in RRC\_IDLE and RRC\_INACTIVE state | |
| 8.1.6.3.3.2 | Inter-System MDT / Radio Link Failure / Logging and reporting / WLAN measurement collection | | Rel-16 | C138 | UEs supporting 5G Core and logged MDT and WLAN measurements in RRC\_IDLE and RRC\_INACTIVE state | |
| 8.1.6.3.3.3 | Inter-System MDT / Radio Link Failure / Logging and reporting / Sensor measurement collection | | Rel-16 | C139a | UEs supporting 5G Core and collection of sensor information such as Barometric pressure, UE speed, and UE orientation information as defined in TS 37.355 and logged MDT. | |
| **8.1.6.3.4** | **Inter-System MDT / Connection Establishment Failure** | |  |  |  | |
| 8.1.6.3.4.1 | Inter-System MDT / Connection Establishment Failure / Logging and reporting / Bluetooth measurement collection | | Rel-16 | C137 | UEs supporting 5G Core and logged MDT and Bluetooth measurements in RRC\_IDLE and RRC\_INACTIVE state | |
| 8.1.6.3.4.2 | Inter-System MDT / Connection Establishment Failure / Logging and reporting / WLAN measurement collection | | Rel-16 | C138 | UEs supporting 5G Core and logged MDT and WLAN measurements in RRC\_IDLE and RRC\_INACTIVE state | |
| 8.1.6.3.4.3 | Inter-System MDT / Connection Establishment Failure / Logging and reporting / Sensor measurement collection | | Rel-16 | C139a | UEs supporting 5G Core and collection of sensor information such as Barometric pressure, UE speed, and UE orientation information as defined in TS 37.355 and logged MDT. | |
| **8.1.6.4** | **SON / RACH Optimisation** | |  |  |  | |
| 8.1.6.4.1 | SON / RACH logging and reporting | | Rel-16 | C136 | UEs supporting 5G Core and delivery of rachReport upon request from the network. | |
| 8.1.6.4.2 | SON / RACH logging and reporting / logging of on-demand SI | | Rel-17 | C278 | UEs supporting 5G Core and delivery of on-Demand SI information upon request from the network. | |
| 8.1.6.4.3 | SON / RACH logging and reporting / 2-step RACH report | | Rel-17 | C279 | UEs supporting 5G Core and delivery of delivery of 2-step RACH related information upon request from the network. | |
| 8.1.6.4.4 | SON / RACH logging and reporting / fallback to 4-step RA | | Rel-17 | C279 | UEs supporting 5G Core and delivery of delivery of 2-step RACH related information upon request from the network. | |
| **8.1.7** | **Non-public networks** | |  |  |  | |
| **8.1.7.1** | **Measurement for self-optimized networks** | |  |  |  | |
| 8.1.7.1.1 | Measurement configuration control and reporting / CGI reporting of NR NPN cell | | Rel-16 | C169 | UEs supporting 5G Core and CAG and acquisition of CGI information from neighbour NR NPN cell | |
| **8.1.7.2** | **RRC connection establishment** | |  |  |  | |
| 8.1.7.2.1 | RRC connection establishment / RRC setup complete with onboarding request | | Rel-17 | C305 | UEs supporting 5G Core and onboarding services in SNPN | |
| **8.1.8** | **Shared spectrum access** | |  |  |  | |
| **8.1.8.1** | **Measurement configuration control and reporting for Shared spectrum** | |  |  |  | |
| 8.1.8.1.1 | Measurement configuration control and reporting for Shared spectrum / RMTC / RSSI measurements / Channel Occupancy reporting / intra-frequency | | Rel-16 | C218 | UEs supporting 5G Core and NR standalone shared spectrum channel access and RSSI measurements and channel occupancy reporting | |
| 8.1.8.1.2 | Measurement configuration control and reporting for Shared spectrum / RMTC / RSSI measurements / Channel Occupancy reporting / inter-frequency | | Rel-16 | C218 | UEs supporting 5G Core and NR standalone shared spectrum channel access and RSSI measurements and channel occupancy reporting | |
| 8.1.8.1.3 | NR CA / Measurement configuration control and reporting for Shared spectrum / RMTC / Event A2 / inter-frequency | | Rel-16 | C318 | UEs supporting 5G Core and NR CA with NR shared spectrum channel access | |
| **8.1.8.2** | **Paging monitoring** | |  |  |  | |
| 8.1.8.2.1 | Paging monitoring / multiple PDCCH monitoring occasions / Short message indication / stopPagingMonitoring | | Rel-16 | C217 | UEs supporting 5G Core and NR standalone shared spectrum channel access | |
| 8.1.8.2.2 | Paging monitoring / multiple PDCCH monitoring occasions / Short message indication / stopPagingMonitoring / RRC inactive | | Rel-16 | C247 | UEs supporting 5G Core and NR standalone shared spectrum channel access and RRC\_INACTIVE | |
| **8.2** | **MR-DC RRC** |  | |  |  |
| **8.2.1** | **UE Capability** |  | |  |  |
| **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 |
| 8.2.1.1.2 | UE capability transfer / Success / NE-DC | Rel-15 | | C160 | UEs supporting NE-DC |
| 8.2.1.2 | Void |  | |  |  |
| **8.2.2** | **Radio Bearer Addition, Modification and Release** |  | |  |  |
| **8.2.2.1** | **Radio Bearer Addition, Modification and Release / SRB** |  | |  |  |
| 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 |
| 8.2.2.1.2 | SRB3 Establishment, Reconfiguration and Release / NR addition, modification and release / NR-DC | Rel-15 | | C86 | UEs supporting NR-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 PDCP duplication over split SRB1/2 |
| 8.2.2.2.2 | Split SRB Establishment and Release / NR-DC | Rel-15 | | C195 | UEs supporting NR-DC and PDCP duplication over split SRB1/2 |
| 8.2.2.2.3 | Split SRB Establishment and Release / NE-DC | Rel-15 | | C196 | UEs supporting NE-DC and PDCP duplication over split SRB1/2 |
| **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 with one UL path / EN-DC | Rel-15 | | C23 | UEs supporting EN-DC and SRB3 and (UL transmission via either MCG path or SCG path for the split SRB) |
| 8.2.2.3.2 | Simultaneous SRB3 and Split SRB / Sequential message flow on SRB3 and Split SRB with one UL path / NR-DC | Rel-15 | | C157 | UEs supporting NR-DC and SRB3 and (UL transmission via either MCG path or SCG path for the split SRB) |
| **8.2.2.4** | **PSCell Addition, Modification and Release / SCG DRB** |  | |  |  |
| 8.2.2.4.1 | PSCell addition, modification and release / SCG DRB / EN-DC | Rel-15 | | C01 | UEs supporting EN-DC |
| 8.2.2.4.2 | PSCell addition, modification and release / SCG DRB / NR-DC | Rel-15 | | C80 | UEs supporting NR-DC |
| 8.2.2.4.3 | PSCell addition, modification and release / SCG DRB / NE-DC | Rel-15 | | C160 | UEs supporting NE-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 |
| 8.2.2.5.2 | PSCell addition, modification and release / Split DRB / NR-DC | Rel-15 | | C80 | UEs supporting NR-DC |
| 8.2.2.5.3 | PSCell addition, modification and release / Split DRB / NE-DC | Rel-15 | | C160 | UEs supporting NE-DC |
| **8.2.2.6** | **Bearer Modification / MCG DRB** |  | |  |  |
| 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 |
| 8.2.2.7.2 | Bearer Modification / Handling for bearer type change without security key change / NR-DC | Rel-15 | | C80 | UEs supporting NR-DC |
| 8.2.2.7.3 | Bearer Modification / Handling for bearer type change without security key change / NE-DC | Rel-15 | | C160 | UEs supporting NE-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 |
| 8.2.2.8.2 | Bearer Modification / Handling for bearer type change with security key change / NR-DC | Rel-15 | | C80 | UEs supporting NR-DC |
| 8.2.2.8.3 | Bearer Modification / Handling for bearer type change with security key change / NE-DC | Rel-15 | | C160 | UEs supporting NE-DC |
| **8.2.2.9** | **Bearer Modification / Uplink data path / Split DRB Reconfiguration** |  | |  |  |
| 8.2.2.9.1 | Bearer Modification / Uplink data path / Split DRB Reconfiguration / EN-DC | Rel-15 | | C01 | UEs supporting EN-DC |
| 8.2.2.9.2 | Bearer Modification / Uplink data path / Split DRB Reconfiguration / NR-DC | Rel-15 | | C80 | UEs supporting NR-DC |
| 8.2.2.9.3 | Bearer Modification / Uplink data path / Split DRB Reconfiguration / NE-DC | Rel-15 | | C160 | UEs supporting NE-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 |
| 8.2.3.1.2 | Measurement configuration control and reporting / Inter-RAT measurements / Event B1 / Measurement of NR cells / NE-DC | | Rel-15 | C160 | UEs supporting NE-DC | |
| **8.2.3.2** | **Measurement configuration control and reporting / Inter-RAT measurements / Event B1 / Measurement of NR cells / RSRQ based measurements** |  | |  |  |
| 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 | UEs supporting EN-DC |
| 8.2.3.2.2 | Measurement configuration control and reporting / Inter-RAT measurements / Event B1 / Measurement of NR cells / RSRQ based measurements / NE-DC | Rel-15 | | C160 | UEs supporting NE-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 |
| 8.2.3.4.2 | Measurement configuration control and reporting / Event A1 / Measurement of E-UTRA PSCell / NE-DC | | Rel-15 | C160 | UEs supporting NE-DC. | |
| **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) |
| 8.2.3.5.2 | Measurement configuration control and reporting / Event A2 / Measurement of E-UTRA PSCell / NE-DC | Rel-15 | | C160 | UEs supporting NE-DC. |
| **8.2.3.6** | **Measurement configuration control and reporting / Event A3 / Measurement of Neighbour NR cells** |  | |  |  |
| 8.2.3.6.1 | Measurement configuration control and reporting / Event A3 / Measurement of Neighbour NR cells / 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 | | C93 | 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) and multiple NR bands. |
| 8.2.3.6.2 | Measurement configuration control and reporting / Event A3 / Measurement of Neighbour E-UTRA and NR cells / Intra-frequency measurements / NE-DC | Rel-15 | | C182 | UEs supporting NE-DC and NR measurements and Event A triggered reporting and (NR intra-frequency and inter-frequency measurements and at least periodical reporting). |
| 8.2.3.6.2a | Measurement configuration control and reporting / Event A3 / Measurement of Neighbour E-UTRA and NR cell / Inter-frequency measurements / NE-DC | Rel-15 | | C182 | UEs supporting NE-DC and NR measurements and Event A triggered reporting and (NR intra-frequency and inter-frequency measurements and at least periodical reporting) and multiple NR bands. |
| 8.2.3.6.2b | Measurement configuration control and reporting / Event A3 / Measurement of Neighbour E-UTRA and NR cell / Inter-band measurements / NE-DC | Rel-15 | | C183 | UEs supporting NE-DC and NR measurements and Event A triggered reporting and (NR intra-frequency and inter-frequency measurements and at least periodical reporting) and multiple NR bands. |
| **8.2.3.7** | **Measurement configuration control and reporting / Event A4 (intra-frequency, inter-frequency and inter-band measurements) / 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 | | C93 | 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) and multiple NR bands. |
| 8.2.3.7.2 | Measurement configuration control and reporting / Event A4 / Measurement of Neighbour E-UTRA and NR cells / Intra-frequency measurements / NE-DC | Rel-15 | | C182 | UEs supporting NE-DC and NR measurements and Event A triggered reporting and (NR intra-frequency and inter-frequency measurements and at least periodical reporting). |
| 8.2.3.7.2a | Measurement configuration control and reporting / Event A4 / Measurement of Neighbor E-UTRA and NR cells / Inter-frequency measurements / NE-DC | Rel-15 | | C182 | UEs supporting NE-DC and NR measurements and Event A triggered reporting and (NR intra-frequency and inter-frequency measurements and at least periodical reporting) |
| 8.2.3.7.2b | Measurement configuration control and reporting / Event A4 / Measurement of Neighbor E-UTRA and NR cells / Inter-band measurements / NE-DC | Rel-15 | | C183 | UEs supporting NE-DC and NR measurements and Event A triggered reporting and (NR intra-frequency and inter-frequency measurements and at least periodical reporting) and multiple NR bands. |
| **8.2.3.8** | **Measurement configuration control and reporting / Event A5 / 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 | | C93 | 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) and multiple NR bands. |
| 8.2.3.8.2 | Measurement configuration control and reporting / Event A5 / Measurement of Neighbour E-UTRA and NR cells / Intra-frequency measurements / NE-DC | | Rel-15 | C182 | UEs supporting NE-DC and NR measurements and Event A triggered reporting and (NR intra-frequency and inter-frequency measurements and at least periodical reporting). | |
| 8.2.3.8.2a | Measurement configuration control and reporting / Event A5 / Measurement of Neighbor E-UTRA and NR cells / Inter-frequency measurements / NE-DC | | Rel-15 | C182 | UEs supporting NE-DC and NR measurements and Event A triggered reporting and (NR intra-frequency and inter-frequency measurements and at least periodical reporting) | |
| 8.2.3.8.2b | Measurement configuration control and reporting / Event A5 / Measurement of Neighbor E-UTRA and NR cells / Inter-band measurements / NE-DC | | Rel-15 | C183 | UEs supporting NE-DC and NR measurements and Event A triggered reporting and (NR intra-frequency and inter-frequency measurements and at least periodical reporting) and multiple NR bands. | |
| **8.2.3.9** | **Measurement configuration control and reporting / SS/PBCH block based / CSI-RS based intra-frequency measurements / Measurement of Neighbour NR cell** |  | |  |  |
| 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 and CSI-RSRQ 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 / 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 CSI-RSRP and CSI-RSRQ measurement |
| **8.2.3.11** | **Measurement configuration control and reporting / Measurement Gaps** |  | |  |  |
| 8.2.3.11.1 | Measurement configuration control and reporting / Measurement Gaps / NR FR1 / EN-DC | 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 configuration control and reporting / Measurement Gaps / 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 |
| 8.2.3.11.3 | Measurement configuration control and reporting / Measurement Gaps / NR-DC | Rel-15 | | C149 | UEs supporting NR-DC and two independent measurement gap configurations for FR1 and 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 |
| 8.2.3.12.2 | Measurement configuration control and reporting / Inter-RAT measurements / Event B2 / Measurement of E-UTRA cells / NE-DC | Rel-15 | | C206 | UEs supporting NE-DC and Inter-RAT E-UTRA measurements and Event B triggered reporting |
| **8.2.3.13** | **PCell Handover with SCG change / Reconfiguration with sync / SCG DRB** |  | |  |  |
| 8.2.3.13.1 | PCell Handover with SCG change / Reconfiguration with sync / SCG DRB / EN-DC | Rel-15 | | C01 | UEs supporting EN-DC |
| 8.2.3.13.2 | PCell Handover with SCG change on same PSCell / mobilityControlInfoSCG / SCG DRB / NE-DC | Rel-15 | | C160 | UEs supporting NE-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 |
| 8.2.3.14.2 | SCG change / Reconfiguration with sync / Split DRB / NR-DC | Rel-15 | | C80 | UEs supporting NR-DC |
| 8.2.3.14.3 | SCG change with HO /mobilityControlInfoSCG / Split DRB / NE-DC | Rel-15 | | C160 | UEs supporting NE-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) |
| **8.2.3.16** | **Measurement configuration control and reporting / SRB3** |  | |  |  |
| 8.2.3.16.1 | Measurement configuration control and reporting / SRB3 / Intra NR measurements / EN-DC | Rel-15 | | C71 | UEs supporting EN-DC and SRB3 and NR intra-frequency and inter-frequency measurements and at least periodical reporting |
| 8.2.3.16.2 | Measurement configuration control and reporting / SRB3 / Intra NR measurements / NR-DC | Rel-15 | | C87 | UEs supporting NR-DC and SRB3 and NR intra-frequency and inter-frequency measurements and at least periodical reporting |
| **8.2.3.17** | **Measurement configuration control and reporting / SFTD** |  | |  |  |
| 8.2.3.17.1 | Measurement configuration control and reporting / SFTD / EN-DC | Rel-15 | | C151 | UEs supporting EN-DC and SFTD measurement between E-UTRA PCell and an NR neighbour cell, and SFTD measurement between E-UTRA PCell and NR PSCell |
| 8.2.3.17.2 | Measurement configuration control and reporting / SFTD / NR-DC | Rel-15 | | C152 | UEs supporting NR-DC and SFTD measurement between NR PCell and an NR neighbour cell, and SFTD measurement between NR PCell and NR PSCell |
| 8.2.3.17.3 | Measurement configuration control and reporting / SFTD / NE-DC | Rel-15 | | C268 | UEs supporting NE-DC and SFTD measurement between NR PCell and E-UTRA PSCell |
| **8.2.3.18** | **Conditional PSCell change** |  | |  |  |
| 8.2.3.18.1 | Conditional PSCell change / Success / EN-DC | Rel-16 | | C153 | UEs supporting EN-DC and Conditional PSCell change |
| 8.2.3.18.2 | Conditional PSCell change / Failure / EN-DC | Rel-16 | | C153 | UEs supporting EN-DC and Conditional PSCell change |
| 8.2.3.18.3 | Conditional PSCell change / PCell change / PSCell change / EN-DC | Rel-16 | | C153 | UEs supporting EN-DC and Conditional PSCell change |
| 8.2.3.18.4 | MN initiated inter-SN Conditional PSCell change / Success / EN-DC | Rel-17 | | C153A | UEs supporting EN-DC and MN initiated conditional PSCell change |
| 8.2.3.18.5 | MN initiated inter-SN Conditional PSCell change / Success / NR-DC | Rel-17 | | C153B | UEs supporting NR-DC and MN initiated conditional PSCell change |
| **8.2.4** | **Carrier Aggregation** |  | |  |  |
| **8.2.4.1** | **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 | | C67 | UEs supporting EN-DC and Intra-Band Contiguous CA and EN-DC with 2 NR DL carriers |
| 8.2.4.1.1.2 | NR CA / NR SCell addition / modification / release / Success / EN-DC / Intra-band non-Contiguous CA | Rel-15 | | C68 | UEs supporting EN-DC and Intra-Band Non-Contiguous CA and EN-DC with 2 NR DL carriers |
| 8.2.4.1.1.3 | NR CA / NR SCell addition / modification / release / Success / EN-DC / Inter-band CA | Rel-15 | | C69 | UEs supporting EN-DC and Inter-Band CA and EN-DC with 2 NR DL carriers |
| 8.2.4.1.1.4 | NR CA / NR SCell addition / modification / release / Success / EN-DC / Active SCG SCell addition / Intra-band Contiguous CA | Rel-16 | | C199 | UEs supporting EN-DC, direct NR SCG SCell activation and Intra-Band Contiguous CA |
| 8.2.4.1.1.5 | NR CA / NR SCell addition / modification / release / Success / EN-DC / Active SCG SCell addition / Intra-band non-Contiguous CA | Rel-16 | | C200 | UEs supporting EN-DC, direct NR SCG SCell activation and Intra-Band Non-Contiguous CA |
| 8.2.4.1.1.6 | NR CA / NR SCell addition / modification / release / Success / EN-DC / Active SCG SCell addition / Inter-band CA | Rel-16 | | C201 | UEs supporting EN-DC, direct NR SCG SCell activation and Inter-Band CA |
| **8.2.4.1.2** | **NR CA / NR SCell addition / modification / release / Success / NR-DC / Active SCG SCell addition** |  | |  |  |
| 8.2.4.1.2.1 | NR CA / NR SCell addition / modification / release / Success / NR-DC / Active SCG SCell addition / Intra-band Contiguous CA | Rel-16 | | C202 | UEs supporting NR-DC, direct NR SCG SCell activation and intra-band contiguous CA |
| 8.2.4.1.2.2 | NR CA / NR SCell addition / modification / release / Success / NR-DC / Active SCG SCell addition / Intra-band non-contiguous CA | Rel-16 | | C203 | UEs supporting NR-DC, direct NR SCG SCell activation and intra-band non-contiguous CA |
| 8.2.4.1.2.3 | NR CA / NR SCell addition / modification / release / Success / NR-DC / Active SCG SCell addition / Inter-band CA | Rel-16 | | C204 | UEs supporting NR-DC, direct NR SCG SCell activation and inter-band CA |
| **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 | | C67 | UEs supporting EN-DC and Intra-Band Contiguous C and EN-DC with 2 NR DL carriersA |
| 8.2.4.2.1.2 | NR CA / Simultaneous PSCell and SCell addition / PSCell and SCell change / CA Release / EN-DC / Intra-band non-Contiguous CA | Rel-15 | | C68 | UEs supporting EN-DC and Intra-Band Non-Contiguous C and EN-DC with 2 NR DL carriersA |
| 8.2.4.2.1.3 | NR CA / Simultaneous PSCell and SCell addition / PSCell and SCell change / CA Release / EN-DC / Inter-band CA | Rel-15 | | C69 | UEs supporting EN-DC and Inter-Band C and EN-DC with 2 NR DL carriersA |
| **8.2.4.3** | **NR CA / SCell change / Intra-NR measurement event A6 / SRB3** |  | |  |  |
| **8.2.4.3.1** | **NR CA / SCell change / Intra-NR measurement event A6 / SRB3 / EN-DC** |  | |  |  |
| 8.2.4.3.1.1 | NR CA / SCell change / Intra-NR measurement event A6 / SRB3 / EN-DC / Intra-band Contiguous CA | Rel-15 | | C55 | UEs supporting EN-DC and NR measurements and Event A triggered reporting and intra-band contiguous CA and EN-DC with 2 NR DL carriers and SRB3 |
| 8.2.4.3.1.2 | NR CA / SCell change / Intra-NR measurement event A6 / SRB3 / EN-DC / Intra-band non-Contiguous CA | Rel-15 | | C57 | UEs supporting EN-DC and NR measurements and Event A triggered reporting and intra-band non-contiguous CA and EN-DC with 2 NR DL carriers and SRB3 |
| 8.2.4.3.1.3 | NR CA / SCell change / Intra-NR measurement event A6 / SRB3 / EN-DC / Inter-band CA | Rel-15 | | C56 | UEs supporting EN-DC and NR measurements and Event A triggered reporting and inter-band CA and EN-DC with 2 NR DL carriers and SRB3 |
| **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 / Random access problem / EN-DC | Rel-15 | | C01 | UEs supporting EN-DC |
| 8.2.5.1.2 | Radio link failure / Random access problem / NR-DC | Rel-15 | | C80 | UEs supporting NR-DC |
| **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 / EN-DC | Rel-15 | | C01 | UEs supporting EN-DC |
| 8.2.5.2.2 | Radio link failure / PSCell out of sync indication / NR-DC | Rel-15 | | C80 | UEs supporting NR-DC |
| **8.2.5.3** | **Radio link failure / rlc-MaxNumRetx failure** |  | |  |  |
| 8.2.5.3.1 | Radio link failure / rlc-MaxNumRetx failure / EN-DC | Rel-15 | | C01 | UEs supporting EN-DC |
| 8.2.5.3.2 | Radio link failure / rlc-MaxNumRetx failure / NR-DC | Rel-15 | | C80 | UEs supporting NR-DC |
| 8.2.5.3.3 | Radio link failure / rlc-MaxNumRetx failure / NE-DC | Rel-15 | | C160 | UEs supporting NE-DC |
| **8.2.5.4** | **Reconfiguration failure / SCG change failure** |  | |  |  |
| 8.2.5.4.1 | Reconfiguration failure / SCG change failure / EN-DC | Rel-15 | | C01 | UEs supporting EN-DC |
| 8.2.5.4.2 | Reconfiguration failure / SCG change failure / NR-DC | Rel-15 | | C80 | UEs supporting NR-DC |
| **8.2.5.5** | **Reconfiguration failure / SCG 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 |  | |  |  |
| **8.2.5.7** | **Radio link failure / Shared spectrum / LBT Failure** |  | |  |  |
| 8.2.5.7.1 | Radio link failure / LBT Failure / EN-DC | Rel-16 | | C243 | UEs supporting 5G Core and EN-DC with NR shared spectrum channel access |
| 8.2.5.7.2 | Radio link failure / LBT Failure / NR-DC | Rel-16 | | C244 | UEs supporting 5G Core and NR-DC with NR shared spectrum channel access |
| **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** |  | |  |  |
| 8.2.6.1.1.1 | Failure information / RLC failure / SCG / EN-DC / Intra-band Contiguous CA | Rel-15 | | C75 | UEs supporting EN-DC and SRB3 and intra-band contiguous CA and CA-based PDCP duplication over MCG or SCG DRB and EN-DC with 2 NR UL carriers |
| 8.2.6.1.1.2 | Failure information / RLC failure / SCG / EN-DC / Inter-band CA | Rel-15 | | C76 | UEs supporting EN-DC and SRB3 and inter-band CA and CA-based PDCP duplication over MCG or SCG DRB and EN-DC with 2 NR UL carriers |
| 8.2.6.1.1.3 | Failure information / RLC failure / SCG / EN-DC / Intra-band non Contiguous CA | Rel-15 | | C77 | UEs supporting EN-DC and SRB3 and intra-band non-contiguous CA and CA-based PDCP duplication over MCG or SCG DRB and EN-DC with 2 NR UL carriers |
| **8.2.6.1.2** | **Failure information / RLC failure / SCG / NR-DC** |  | |  |  |
| 8.2.6.1.2.1 | Failure information / RLC failure / SCG / NR-DC / Intra-band Contiguous CA | Rel-15 | | C88 | UEs supporting NR-DC and SRB3 and intra-band contiguous CA and CA-based PDCP duplication over MCG or SCG DRB and UL NR CA with 2 carriers |
| 8.2.6.1.2.2 | Failure information / RLC failure / SCG / NR-DC / Inter-band CA | Rel-15 | | C89 | UEs supporting NR-DC and SRB3 and inter-band CA and CA-based PDCP duplication over MCG or SCG DRB and UL NR CA with 2 carriers |
| 8.2.6.1.2.3 | Failure information / RLC failure / SCG / NR-DC / Intra-band non Contiguous CA | Rel-15 | | C90 | UEs supporting NR-DC and SRB3 and intra-band non-contiguous CA and CA-based PDCP duplication over MCG or SCG DRB and UL NR CA with 2 carriers |
| **8.2.6.2** | **Processing delay** |  | |  |  |
| 8.2.6.2.1 | Processing delay / PSCell addition / SCG DRB / Success / Latency check / EN-DC | Rel-15 | | C01 | UEs supporting EN-DC |
| 8.2.6.2.2 | Processing delay / Latency check / NR-DC | Rel-15 | | C80 | UEs supporting NR-DC |
| 8.2.6.2.4 | Processing delay / RRC\_INACTIVE / Latency check / NR-DC | Rel-16 | | C229 | UEs supporting 5G Core and NR-DC and RRC\_INACTIVE and (re-)configuration of an SCG during the resume procedure. |
| **8.2.6.3** | **Idle/Inactive measurements** |  | |  |  |
| 8.2.6.3.1 | Idle/Inactive measurements / Idle mode / EN-DC / SIB5 & SIB24 configuration | Rel-16 | | C225 | UEs supporting EN-DC and Idle/Inactive Measurements |
| 8.2.6.3.2 | Idle/Inactive measurements / Idle mode / EN-DC / RRCConnectionRelease configuration | Rel-16 | | C225 | UEs supporting EN-DC and Idle/Inactive Measurements |
| 8.2.6.3.3 | Idle/Inactive measurements / Inactive mode / NE-DC / SIB11 configuration | Rel-16 | | C193 | UEs supporting 5G Core, E-UTRA, RRC\_INACTIVE and Idle/Inactive Measurements |
| 8.2.6.3.4 | Idle/Inactive measurements / Inactive mode / NE-DC / RRCRelease configuration | Rel-16 | | C193 | UEs supporting 5G Core, E-UTRA, RRC\_INACTIVE and Idle/Inactive Measurements |
| 8.2.6.3.5 | Idle/Inactive Measurements / Idle mode / NE-DC / SIB11 configuration | Rel-16 | | C191 | UEs supporting 5G Core, E-UTRA and Idle/Inactive Measurements |
| 8.2.6.3.6 | Idle/Inactive Measurements / Idle mode / NE-DC / RRCRelease configuration | Rel-16 | | C191 | UEs supporting 5G Core, E-UTRA and Idle/Inactive Measurements |
| **8.2.6.4** | **UPIP / RRC connection** | |  |  |  |
| 8.2.6.4.1 | UPIP / RRC connection establishment / Success / Reception of SecurityModeCommand by the UE | | Rel-17 | C286 | UEs supporting EN-DC and user plane integrity protection with EPS |
| 8.2.6.4.2 | UPIP / RRC connection re-establishment / Reception of the RRCConnection Reestablishment by UE | | Rel-17 | C286 | UEs supporting EN-DC and user plane integrity protection with EPS |
| 8.2.6.4.3 | UPIP / RRC connection reconfiguration / Handover / Success / Reception of RRCConnctionReconfiguration including mobilityControlInfo by UE | Rel-17 | | C286 | UEs supporting EN-DC and user plane integrity protection with EPS |
| 8.2.6.4.4 | UPIP / Inter-RAT mobility - Handover to E-UTRA - Reception of RRCConnection Reconfiguration by UE | Rel-17 | | C286 | UEs supporting EN-DC and user plane integrity protection with EPS |
| **8.2.7** | **RRC resume** |  | |  |  |
| **8.2.7.1** | **RRC resume / EN-DC** |  | |  |  |
| **8.2.7.2** | **RRC resume / NR-DC** |  | |  |  |
| 8.2.7.2.1 | RRC Resume / Suspend-Resume / RRC reconfiguration / NR-DC / Resume with SCG | Rel-16 | | C229 | UEs supporting 5G Core and NR-DC and RRC\_INACTIVE and (re-)configuration of an SCG during the resume procedure. |
| 8.2.7.3.1 | RRC Resume / Suspend-Resume / RRC reconfiguration / NE-DC / Resume with SCG | Rel-16 | | C255 | UEs supporting 5G Core and NE-DC and RRC\_INACTIVE and (re-)configuration of an SCG during the resume procedure. |

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 |  |  |  |  |
| 8.1.1.1 |  |  |  |  |
| 8.1.1.1.1 | pc\_inactiveState |  |  |  |
| 8.1.1.1.2 | pc\_inactiveState |  |  |  |
| 8.1.1.3 |  |  |  |  |
| 8.1.1.3.2 |  |  |  | Rel-15 E-UTRA |
| 8.1.1.3.4 |  |  |  | Rel-15 E-UTRA |
| 8.1.1.3.7a |  |  |  | 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 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 |  |  |  |  |
| 8.1.3.1.23 | pc\_inactiveState |  |  |  |
| 8.1.3.2 |  |  |  |  |
| 8.1.3.2.6 |  |  |  | Rel-16 UTRA |
| 8.1.3.2.7 |  |  |  | Rel-16 UTRA |
| 8.1.4 |  |  |  |  |
| 8.1.4.1 |  |  |  |  |
| 8.1.4.1.2 |  | px\_NAS\_5GC\_CipheringAlgorithm  px\_NAS\_5GC\_IntegrityAlgorithm |  |  |
| 8.1.4.1.10 |  |  | Note 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-16 EN-DC |
| 8.1.4.2.2 |  |  |  |  |
| 8.1.4.2.2.1 |  |  |  | Rel-15 E-UTRA |
| **8.1.5** |  |  |  |  |
| **8.1.5.1** |  |  |  |  |
| 8.1.5.1.1 |  |  | If 8.2.1.1.2 is executed this test case is optional |  |
| **8.1.5.7** |  |  |  |  |
| **8.1.5.7.1** |  |  |  |  |
| 8.1.5.7.1.1 |  |  | If 8.1.5.7.1.2 or 8.1.5.7.1.3 is executed this test case is optional |  |
| 8.1.5.7.1.2 |  |  | If 8.1.5.7.1.1 or 8.1.5.7.1.3 is executed this test case is optional |  |
| 8.1.5.7.1.3 |  |  | If 8.1.5.7.1.1 or 8.1.5.7.1.2 is executed this test case is optional |  |
| **8.1.5.8** |  |  |  |  |
| 8.1.5.8.1 | pc\_inactiveState |  |  |  |
| **8.1.5.8.2** |  |  |  |  |
| 8.1.5.8.2.1 | pc\_inactiveState |  | If 8.1.5.8.2.2 or 8.1.5.8.2.3 is executed this test case is optional |  |
| 8.1.5.8.2.2 | pc\_inactiveState |  | If 8.1.5.8.2.1 or 8.1.5.8.2.3 is executed this test case is optional |  |
| 8.1.5.8.2.3 | pc\_inactiveState |  | If 8.1.5.8.2.1 or 8.1.5.8.2.2 is executed this test case is optional |  |
| **8.1.5.9** |  |  |  |  |
| 8.1.5.9.1 | pc\_Set\_UE\_Cap\_Info\_NR |  |  |  |
| **8.1.6** |  |  |  |  |
| **8.1.6.1** |  |  |  |  |
| **8.1.6.1.3** |  |  |  |  |
| 8.1.6.1.3.1 |  |  | If 8.1.6.1.3.5 is executed this test case is optional. |  |
| **8.1.6.2** |  |  |  |  |
| 8.1.6.2.1 |  |  |  | Rel-15 E-UTRA |
| 8.1.6.2.2 |  |  |  | Rel-15 E-UTRA |
| 8.1.6.2.3 |  |  |  | Rel-15 E-UTRA |
| 8.1.6.2.4 |  |  |  | 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) |  |
| 8.2.2.1.2 |  |  | Only executed if test case 8.2.2.3.2 is not applicable (Note 1) |  |
| 8.2.3 |  |  |  |  |
| 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) |  |
| 8.2.4 |  |  |  |  |
| 8.2.4.1 |  |  |  |  |
| 8.2.4.1.1 |  |  |  |  |
| 8.2.4.1.1.4 |  |  |  | Rel-15 E-UTRA |
| 8.2.4.1.1.5 |  |  |  | Rel-15 E-UTRA |
| 8.2.4.1.1.6 |  |  |  | Rel-15 E-UTRA |
| 8.2.6 |  |  |  |  |
| 8.2.6.1 |  |  |  |  |
| 8.2.6.1.1 |  |  |  |  |
| 8.2.6.1.1.1 |  |  | If 8.2.6.1.1.2 or 8.2.6.1.1.3 is executed this test case is optional |  |
| 8.2.6.1.1.2 |  |  | If 8.2.6.1.1.1 or 8.2.6.1.1.3 is executed this test case is optional |  |
| 8.2.6.1.1.3 |  |  | If 8.2.6.1.1.1 or 8.2.6.1.1.2 is executed this test case is optional |  |
| **8.2.6.1.2** |  |  |  |  |
| 8.2.6.1.2.1 |  |  | If 8.2.6.1.2.2 or 8.2.6.1.2.3 is executed this test case is optional |  |
| 8.2.6.1.2.2 |  |  | If 8.2.6.1.2.1 or 8.2.6.1.2.3 is executed this test case is optional |  |
| 8.2.6.1.2.3 |  |  | If 8.2.6.1.2.1 or 8.2.6.1.2.2 is executed this test case is optional |  |
| **8.2.6.2** |  |  |  |  |
| 8.2.6.2.4 | pc\_reducedCP\_Latency |  |  |  |
| Note 1: Test cases 8.2.2.3.1 also verifies the core requirements covered by test case 8.2.2.1.1 but it is not applicable to all UE. Test case 8.2.2.3.2 and 8.2.2.1.2 are also in the same situation.  Note 2: Only one among the three intra-frequency, inter-frequency and inter-band variants is required to be executed making sure all three variants are tested at least once across measurement events A3/A4/A5.  Note 3: 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 2.  Note 4: This test case can optionally be executed from Release 15 onwards. | | | | |

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

| 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 / 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 | C84 | 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 | C84 | 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 |
| 9.1.4.2 | UAS / Generic UE configuration update / Revocation | Rel-17 | C310 | UEs supporting 5G Core and UAS |
| **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 / 5GS services / MICO mode / TAI list handling | Rel-15 | C313 | UEs supporting 5G Core and MICO mode |
| 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 |  |  |  |
| 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 / T3346 | Rel-15 | C21 | UEs supporting 5G Core |
| 9.1.5.1.15 | Initial registration / Success / Extended and spare fields in CAG information list | Rel-15 only | C21 | UEs supporting 5G Core |
| 9.1.5.1.16 | Initial Registration / Success / MUSIM | Rel-17 | C219 | UEs supporting 5G Core and Multi-SIM features |
| 9.1.5.1.17 | Initial registration / Success / UAS | Rel-17 | C310 | UEs supporting 5G Core and UAS |
| **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 requests NAS signalling connection recovery | Rel-15 | C21 | UEs supporting 5G Core |
| 9.1.5.2.5 | Void |  |  |  |
| 9.1.5.2.7 | Mobility and periodic registration update / Rejected / UE identity cannot be derived by the network | Rel-15 | C21 | UEs supporting 5G Core |
| 9.1.5.2.8 | Mobility and periodic registration update / Rejected / Implicitly de-registered | Rel-15 | C21 | UEs supporting 5G Core |
| 9.1.5.2.9 | Void |  |  |  |
| 9.1.5.2.10 | Mobility registration update / MUSIM / NAS signalling connection release | Rel-17 | C242 | UEs supporting 5G Core and Multi-SIM N1 NAS signalling connection release |
| 9.1.5.2.11 | UAS / Mobility and periodic registration update / UUAA / Rejected | Rel-17 | C310 | UEs supporting 5G Core and UAS |
| **9.1.6** | **De-registration** |  |  |  |
| **9.1.6.1** | **UE-initiated de-registration** |  |  |  |
| 9.1.6.1.1 | UE-initiated de-registration / Switch off / Abnormal / De-registration and 5GMM common procedure collision | Rel-15 | C21 | UEs supporting 5G Core |
| 9.1.6.1.2 | UE-initiated de-registration / Normal de-registration / Abnormal / Transmission failure without TAI change from lower layers, de-registration and 5GMM common procedure collision, T3521 timeout | Rel-15 | C21 | UEs supporting 5G Core |
| 9.1.6.1.3 | UE-initiated de-registration / Abnormal / Change of cell into a new tracking area | Rel-15 | C21 | UEs supporting 5G Core |
| 9.1.6.1.4 | Void |  |  |  |
| **9.1.6.2** | **Network-initiated de-registration** |  |  |  |
| 9.1.6.2.1 | Network-initiated de-registration / De-registration for 3GPP access / Re-registration required | Rel-15 | C21 | UEs supporting 5G Core |
| 9.1.6.2.2 | Network-initiated de-registration / De-registration for 3GPP access / Re-registration not required | Rel-15 | C21 | UEs supporting 5G Core |
| 9.1.6.2.3 | UAS / De-registration / UE-initiated / Network-initiated | Rel-17 | C310 | UEs supporting 5G Core and UAS |
| **9.1.7** | **Service request** |  |  |  |
| 9.1.7.1 | Service request / Idle mode uplink user data transport / Rejected / Restricted service area, abnormal / T3517, T3525 | Rel-15 | C21 | UEs supporting 5G Core |
| 9.1.7.2 | Service request / Connected mode user data transport / Abnormal / T3517 | Rel-15 | C21 | UEs supporting 5G Core |
| 9.1.7.3 | Service request / MUSIM / NAS signalling connection release | Rel-17 | C242 | UEs supporting 5G Core and Multi-SIM N1 NAS signalling connection release |
| 9.1.7.4 | Service request / MUSIM / Rejection of paging | Rel-17 | C220 | UEs supporting 5G Core and Multi-SIM Reject paging request |
| **9.1.8** | **SMS over NAS** |  |  |  |
| 9.1.8.1 | SMS over NAS / MO and MT SMS over NAS / Idle mode | Rel-15 | C33 | UEs supporting 5G Core and SMS over NAS and UE configured to not use SMSoIP |
| 9.1.8.2 | SMS over NAS / Multiple MO and MT SMS over NAS / Connected mode | Rel-15 | C33 | UEs supporting 5G Core and SMS over NAS and UE configured to not use SMSoIP |
| **9.1.9** | **RACS** |  |  |  |
| 9.1.9.1 | RACS / Network assigned UE radio capability ID | Rel-16 | C108 | UEs supporting 5G Core and RACS |
| 9.1.9.2 | RACS / UE configuration update / UE radio capability ID | Rel-16 | C108 | UEs supporting 5G Core and RACS |
| 9.1.9.3 | RACS / PLMN change within registration area / From NW assigned to Manufacturer assigned UE Radio Capability ID | Rel-16 | C177 | UEs supporting 5G Core and RACS and Manufacturer assigned Radio Capability ID |
| 9.1.9.4 | RACS / USIM change / Handling of URCID | Rel-16 | C108 | UEs supporting 5G Core and RACS |
| 9.1.9.5 | RACS / Handling of delete indication for NW assigned UE radio capability ID | Rel-16 | C108 | UEs supporting 5G Core and RACS |
| 9.1.9.6 | RACS / Change in radio capability / NW assigned URCID | Rel-16 | C108 | UEs supporting 5G Core and RACS |
| 9.1.9.7 | RACS / Inter-system mobility registration update / Handling of UE radio capability ID | Rel-16 | C178 | UEs supporting 5G Core and E-UTRA and RACS |
| **9.1.10** | **Network slice-specific authentication and authorization** |  |  |  |
| 9.1.10.1 | NSSAA / EAP message transport / Success | Rel-16 | C147 | UEs supporting 5G Core and NSSAA and EAP-AKA’ for NSSAA |
| 9.1.10.2 | NSSAA / EAP message transport / Abnormal | Rel-16 | C147 | UEs supporting 5G Core and NSSAA and EAP-AKA’ for NSSAA |
| 9.1.10.3 | NSSAA / Initial registration / Rejected NSSAI, pending NSSAI | Rel-16 | C147 | UEs supporting 5G Core and NSSAA and EAP-AKA’ for NSSAA |
| 9.1.10.4 | NSSAA / Initial registration / Reject | Rel-16 | C147 | UEs supporting 5G Core and NSSAA and EAP-AKA’ for NSSAA |
| 9.1.10.6 | NSSAA / UE configuration update / Rejected NSSAI | Rel-16 | C147 | UEs supporting 5G Core and NSSAA and EAP-AKA’ for NSSAA |
| **9.1.11** | **SNPN / Mobility management aspects** |  |  |  |
| 9.1.11.1 | SNPN / Initial registration / Rejected / Temporarily not authorized for this SNPN | Rel-16 | C131 | UEs supporting 5G Core and SNPN |
| 9.1.11.2 | SNPN / Initial registration / Rejected / Permanently not authorized for this SNPN | Rel-16 | C131 | UEs supporting 5G Core and SNPN |
| 9.1.11.3 | SNPN / EAP based primary authentication and key agreement / EAP-AKA' related procedures | Rel-16 | C131 | UEs supporting 5G Core and SNPN |
| 9.1.11.4 |  |  |  |  |
| 9.1.11.5 | SNPN / Initial registration / Rejected / Illegal ME / Access to an SNPN for onboarding services | Rel-17 | C305 | UEs supporting 5G Core and Onboarding SNPN (hence supports Default UE Credentials) |
| **9.1.12** | **NSAC / Mobility management aspects** |  |  |  |
| 9.1.12.1 | NSAC / Initial registration / Back-off timer | Rel-17 | C21 | UEs supporting 5G Core |
| 9.1.12.2 | NSAC / Initial registration / Back-off timer is not provided or zero | Rel-17 | C21 | UEs supporting 5G Core |
| 9.1.12.3 | NSAC / Initial registration / Rejected / equivalent PLMNs | Rel-17 | C21 | UEs supporting 5G Core |
| 9.1.12.4 | NSAC / Generic UE configuration update / Rejected NSSAI | Rel-17 | C21 | UEs supporting 5G Core |
| 9.1.12.5 | NSAC / De-registration / 5GMM cause value #62 and rejected NSSAI | Rel-17 | C21 | UEs supporting 5G Core |
| **9.1.13** | **NSSRG / Mobility management aspects** |  |  |  |
| 9.1.13.1 | NSSRG / Initial registration | Rel-17 | C230 | UEs supporting 5G Core and NSSRG |
| 9.1.13.2 | NSSRG / Generic UE configuration update | Rel-17 | C230 | UEs supporting 5G Core and NSSRG |
| **9.1.14** | **Paging Early Indication with Paging Subgrouping Assistance** |  |  |  |
| 9.1.14.1 | Paging Early Indication with Paging Subgrouping Assistance / Registration / provision and deletion of PEIPS assistance information | Rel-17 | C224A | UEs supporting 5G Core and PEI and PEIPS |
| **9.2** | **5GS Non-3GPP Access Mobility Management** |  |  |  |
| **9.2.1** | **Primary authentication and key agreement procedure** |  |  |  |
| 9.2.1.1 | EAP based primary authentication and key agreement | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| 9.2.1.2 | 5G AKA based primary authentication and key agreement | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| **9.2.2** | **Security Mode Control** |  |  |  |
| 9.2.2.1 | NAS security mode command | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| 9.2.2.2 | Protection of initial NAS signalling messages | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| **9.2.3** | **Void** |  |  |  |
| **9.2.4** | **Generic UE configuration** |  |  |  |
| 9.2.4.1 | Generic UE configuration update | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| **9.2.5** | **Registration** |  |  |  |
| **9.2.5.1** | **Initial Registration** |  |  |  |
| 9.2.5.1.1 | Initial registration / Success / 5G-GUTI reallocation, Last visited TAI | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| 9.2.5.1.2 | Initial registration / 5GS services / NSSAI handling | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| 9.2.5.1.3 | Void |  |  |  |
| 9.2.5.1.4 | Initial registration / Rejected / Congestion / Abnormal cases / T3346 | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| **9.2.5.2** | **Mobility Registration** |  |  |  |
| 9.2.5.2.1 | Void |  |  |  |
| 9.2.5.2.2 | Mobility registration update/Change of SMS over NAS capability | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| **9.2.6** | **De-registration** |  |  |  |
| **9.2.6.1** | **UE-initiated de-registration** |  |  |  |
| 9.2.6.1.1 | UE-initiated de-registration / switch off | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| **9.2.6.2** | **Network-initiated de-registration** |  |  |  |
| 9.2.6.2.1 | Network-initiated de-registration / De-registration for Non-3GPP access / Re-registration required | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| 9.2.6.2.2 | Network-initiated de-registration / De-registration for Non 3GPP access / Re-registration not required | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| **9.2.7** | **Service request** |  |  |  |
| 9.2.7.1 | Service request / IDLE mode uplink user data transport / Rejected / Restricted service area, Abnormal / T3517 | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| 9.2.7.2 | Service request / CMM CONNECTED mode/uplink user data transport / Abnormal / T3517 | Rel-15 | C58 | UEs supporting 5G core over non-3GPP Access Network, WLAN and (ICMP or ICMP IPv6) |
| **9.2.8** | **SMS over NAS** |  |  |  |
| 9.2.8.1 | SMS over NAS / MO SMS over NAS - 5GMM-Idle mode | Rel-15 | C30 | UEs supporting 5G core over non-3GPP Access Network and SMS over NAS and WLAN |
| **9.3** | **Inter-system mobility** |  |  |  |
| **9.3.1** | **5GS-EPC Inter-system mobility** |  |  |  |
| 9.3.1.1 | Inter-system mobility registration update / Single-registration mode with N26 / 5GMM-IDLE / 5GC to EPC | Rel-15 | C26 | UEs supporting 5GS and E-UTRA |
| 9.3.1.2 | Inter-system mobility registration update / Single-registration mode with N26 / 5GMM-IDLE / EPC to 5GC | Rel-15 | C26 | UEs supporting 5GS and E-UTRA |
| 9.3.1.3 | Inter-system mobility and periodic registration update / Rejected / Single-registration mode with N26 / Handling of EPC relevant parameters | Rel-15 | C26 | UEs supporting 5GS and E-UTRA |
| 9.3.1.4 | NSAC / interworking with EPC | Rel-17 | C260 | UEs supporting 5GS and E-UTRA and NSSRG |
| 9.3.1.6 | Inter-system mobility registration update / Single registration mode with N26 interface / No E-UTRA Disabling In 5GS / tracking area updating attempt counter is equal to 5 / Success | Rel-17 | C324 | UEs supporting 5G Core and E-UTRA and No E-UTRA Disabling In 5GS |
| 9.4 | **Non-Terrestrial Network** |  |  |  |
| 9.4.1 | **5GS mobility management for Non-Terrestrial Network** |  |  |  |
| 9.4.1.1 | NTN / GNSS position reporting / reject cause #78 "PLMN not allowed to operate at the present UE location" | Rel-17 | C309 | UEs supporting 5G Core and NR NTN access |
| 9.4.1.2 | NTN / Mobility registration update / supported TACs not part of UE registration area | Rel-17 | C309 | UEs supporting 5G Core and NR NTN access |
| **10** | **Session management** |  |  |  |
| **10.1** | **5GS session management** |  |  |  |
| **10.1.1** | **PDU session authentication and authorization** |  |  |  |
| 10.1.1.1 | PDU session authentication and authorization / During the UE-requested PDU session procedure | Rel-15 | C39A | UEs supporting 5G Core and additional UE-requested PDU establishment and support of EAP-AKA’ as EAP method for PDU session authentication and authorization |
| 10.1.1.2 | PDU session authentication and authorization / After the UE-requested PDU session procedure | Rel-15 | C39A | UEs supporting 5G Core and additional UE-requested PDU establishment and support of EAP-AKA’ as EAP method for PDU session authentication and authorization |
| **10.1.2** | **Network-requested PDU session modification** |  |  |  |
| 10.1.2.1 | Network-requested PDU session modification / Accepted | Rel-15 | C21 | UEs supporting 5G Core |
| 10.1.2.2 | Network-requested PDU session modification / Abnormal / PDU session in state PDU SESSION INACTIVE | Rel-15 | C39 | UEs supporting 5G Core and additional UE-requested PDU establishment |
| **10.1.3** | **Network-requested PDU session release** |  |  |  |
| 10.1.3.1 | Void |  |  |  |
| 10.1.3.2 | Network-requested PDU session release / Insufficient resources, insufficient resources for specific slice and DNN, abnormal / Invalid PDU session identity | Rel-15 | C39 | UEs supporting 5G Core and additional UE-requested PDU establishment |
| **10.1.4** | **UE-requested PDU session establishment** |  |  |  |
| 10.1.4.1 | UE-requested PDU session establishment / Abnormal / T3580 | Rel-15 | C39 | UEs supporting 5G Core and additional UE-requested PDU establishment |
| 10.1.4.2 | UAS / UE requested PDU session establishment / UUAA / Release | Rel-17 | C310 | UEs supporting 5G Core and UAS |
| 10.1.4.3 | UAS / UE requested PDU session establishment / UUAA / C2 authorisation / Modification / Release | Rel-17 | C310 | UEs supporting 5G Core and UAS |
| **10.1.5** | **UE-requested PDU session modification** |  |  |  |
| 10.1.5.1 | UE-requested PDU session modification | Rel-15 | C63 | UEs supporting 5G Core and UE requested PDU session modification procedure |
| **10.1.6** | **UE-requested PDU session release** |  |  |  |
| 10.1.6.1 | UE-requested PDU session release / Abnormal / Collision with network-requested PDU session modification procedure | Rel-15 | C21 | UEs supporting 5G Core |
| 10.1.6.2 | UE-requested PDU session release / Abnormal / Collision with network-requested PDU session release procedure | Rel-15 | C21 | UEs supporting 5G Core |
| **10.1.7** | **Network-requested PDU session release** |  |  |  |
| 10.1.7.1 | Void |  |  |  |
| **10.1.8** | **NSAC / Session management aspects** |  |  |  |
| 10.1.8.1 | NASC / PDU session establishment reject / Maximum number of PDU sessions reached / Back-off timer is neither zero nor deactivated | Rel-17 | C39 | UEs supporting 5G Core and additional UE-requested PDU establishment |
| 10.1.8.2 | NASC / PDU session establishment reject / Maximum number of PDU sessions reached / Back-off timer is deactivated | Rel-17 | C39 | UEs supporting 5G Core and additional UE-requested PDU establishment |
| 10.1.8.3 | NASC / PDU session establishment reject / Maximum number of PDU sessions reached / Back-off timer is zero or not included | Rel-17 | C39 | UEs supporting 5G Core and additional UE-requested PDU establishment |
| 10.1.8.4 | NSAC / 5GSM message not forwarded / Back-off timer | Rel-17 | C39 | UEs supporting 5G Core and additional UE-requested PDU establishment |
| 10.1.8.5 | NSAC / Maximum number of PDU sessions reached / Emergency service | Rel-17 | C261 | UEs supporting 5G Core and additional UE-requested PDU establishment and emergency services in NR connected to 5GCN |
| **10.2** | **EN-DC session management** |  |  |  |
| **10.2.1** | **Network initiated procedures** |  |  |  |
| 10.2.1.1 | Default EPS bearer context activation | Rel-15 | C01 | UEs supporting EN-DC |
| 10.2.1.2 | Dedicated EPS bearer context activation | Rel-15 | C01 | UEs supporting EN-DC |
| **10.2.2** | **UE initiated procedures** |  |  |  |
| 10.2.2.1 | EPS bearer resource allocation / modification | Rel-15 | C16 | UEs supporting EN-DC and UE requested bearer resource allocation and modification procedures |
| **10.3** | **5GS Non-3GPP Access Session Management** |  |  |  |
| **10.3.1** | **PDU session authentication and authorization** |  |  |  |
| 10.3.1.1 | PDU session authentication and authorization / during the UE-requested PDU session procedure | Rel-15 | C159 | UEs supporting 5G core over non-3GPP Access Network and WLAN and additional UE-requested PDU establishment |
| **10.3.2** | **Network-requested PDU session modification** |  |  |  |
| 10.3.2.1 | Network-requested PDU session modification /Accepted/Rejected | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| **10.3.3** | **Network-requested PDU session Release** |  |  |  |
| 10.3.3.1 | Network-requested PDU session release / accepted/ with and without reactivation | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| **10.3.4** | **UE-requested PDU session establishment** |  |  |  |
| 10.3.4.1 | UE-requested PDU session establishment / Abnormal / T3580 | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| **10.3.5** | **UE-requested PDU session modification** |  |  |  |
| 10.3.5.1 | UE-requested PDU session modification/Success | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| **10.3.6** | **UE-requested PDU session release** |  |  |  |
| 10.3.6.1 | UE-requested PDU session release / Abnormal / Collision with network-requested PDU session modification procedure | Rel-15 | C29 | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| **10.4** | **ATSSS session management** |  |  |  |
| **10.4.1** | **UE-requested MA PDU session management** |  |  |  |
| 10.4.1.1 | UE-requested MA PDU session establishment / ATSSS / Registered to same PLMNs over 3GPP and non-3GPP accesses simultaneously / Success | Rel-16 | C251 | UEs supporting 5G Core and 5G core over non-3GPP Access Network and WLAN and additional UE-requested PDU establishment and ATSSS |
| 10.4.1.2 | UE-requested MA PDU session establishment / ATSSS / Registered to same PLMNs over 3GPP and non-3GPP accesses asimultaneously / Success | Rel-16 | C251 | UEs supporting 5G Core and 5G core over non-3GPP Access Network and WLAN and additional UE-requested PDU establishment and ATSSS |
| 10.4.1.3 | UE-requested MA PDU session establishment / ATSSS / Registered to different PLMNs over 3GPP and non-3GPP accesses simultaneously/ Success | Rel-16 | C251 | UEs supporting 5G Core and 5G core over non-3GPP Access Network and WLAN and additional UE-requested PDU establishment and ATSSS |
| 10.4.1.4 | UE-requested MA PDU session establishment / ATSSS / Registered to different PLMNs over 3GPP and non-3GPP accesses asynchronously / Success | Rel-16 | C251 | UEs supporting 5G Core and 5G core over non-3GPP Access Network and WLAN and additional UE-requested PDU establishment and ATSSS |
| 10.4.2 | Network-requested MA PDU session management |  |  |  |
| 10.4.2.2 | Network-requested MA PDU session release / ATSSS / Accepted | Rel-16 | C251 | UEs supporting 5G Core and 5G core over non-3GPP Access Network and WLAN and additional UE-requested PDU establishment and ATSSS |
| 10.4.1.5 | UE-requested MA PDU session modification / ATSSS / Success | Rel-17 | C275 | UEs supporting 5G Core and 5G core over non-3GPP Access Network and WLAN and additional UE-requested PDU establishment and ATSSS |
| 10.4.1.6 | UE-requested MA PDU session modification / ATSSS / Abnormal / MA PDU session is not allowed | Rel-17 | C275 | UEs supporting 5G Core and 5G core over non-3GPP Access Network and WLAN and additional UE-requested PDU establishment and ATSSS |

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** | Specific IXIT | **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 |  |  |  |
| **9.2** |  |  |  |  |
| **9.2.6** |  |  |  |  |
| **9.2.6.1** |  |  |  |  |
| 9.2.6.1.1 | [10] pc\_USIM\_Removal |  |  |  |
| **9.2.7** |  |  |  |  |
| 9.2.7.2 | [10] pc\_IPv4  [10] pc\_IPv6 |  |  |  |
| **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 | MO 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 EPS IMS Voice (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") and EPS fallback |
| 11.1.1a | MO MMTEL enhanced voice service call setup from NR RRC\_IDLE / EPS Fallback with redirection / Single registration mode with N26 interface / Success | Rel-15 | C173 | UEs supporting 5G Core and E-UTRA and NG.114 v2.0 |
| 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 EPS IMS Voice (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") 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 EPS IMS Voice (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") and EPS fallback |
| 11.1.3a | MO MMTEL enhanced voice service call setup from NR RRC\_CONNECTED / EPS Fallback with handover / Single registration mode with N26 interface / Success | Rel-15 | C173 | UEs supporting 5G Core and E-UTRA and NG.114 v2.0 |
| 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 selection using cell status barred / Success | Rel-15 | C54 | UEs supporting 5G Core and E-UTRA and EPS IMS Voice (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") 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 selection using cell status reservation / Success | Rel-15 | C54 | UEs supporting 5G Core and E-UTRA and EPS IMS Voice (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") 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 EPS IMS (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") 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 5G Core and E-UTRA and EPS IMS emergency call (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") and Emergency Services Fallback in NR connected to 5GCN |
| 11.1.8 | MO MMTEL voice call setup from NR RRC\_CONNECTED / EPS Fallback with handover / Single registration mode with N26 interface / voiceFallbackIndication | Rel-16 | C95 | UEs supporting 5G Core and E-UTRA and EPS IMS (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") Voice and EPS fallback and voiceFallbackIndication |
| 11.1.9 | MO MMTEL voice call setup from NR RRC\_IDLE / EPS Fallback with redirection / Single registration mode with N26 interface / voiceFallbackIndication | Rel-16 | C95 | UEs supporting 5G Core and E-UTRA and EPS IMS (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") Voice and EPS fallback and voiceFallbackIndication |
| 11.1.10 | MO MMTEL voice call setup from NR RRC\_IDLE / EPS Fallback with redirection / Single registration mode with N26 interface / No E-UTRA Disabling In 5GS / attach attempt counter is equal to 5 / Success | Rel-17 | C316 | UEs supporting 5G Core and E-UTRA and EPS IMS Voice (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") and EPS fallback and being configured for No E-UTRA Disabling In 5GS |
| **11.2** | **5G-SRVCC** |  |  |  |
| 11.2.1 | 5G-SRVCC from NG-RAN to 3GPP UTRAN | Rel-16 | C127 | UEs supporting 5G Core and UTRA and NR to UTRA-FDD CELL\_DCH CS handover |
| **11.3** | **Unified Access Control (UAC)** |  |  |  |
| 11.3.1 | UAC / Access Identity 0 / 0% access probability / MTSI MO speech call / SMSoIP | Rel-15 | C78 | UEs supporting 5G Core and Initiating session and IMS voice over NR and MTSI speech and SMS over IP |
| 11.3.1a | UAC / Access Identity 0 / 0% access probability / Uplink user data transfer / RRC\_INACTIVE | Rel-15 | C109A | UEs supporting 5G Core and RRC\_INACTIVE and UE's usage setting as data centric |
| 11.3.2 | UAC / Access Identity 0 / 0% access probability / Paging for MT access/Emergency call | Rel-15 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 11.3.3 | UAC / Access Identity 0 / AC8 / RRC\_INACTIVE / RNA update / RRC resume | Rel-15 | C109 | UEs supporting 5G Core and RRC\_INACTIVE |
| 11.3.4 | UAC / Access Identity 0 / Registration procedure for mobility and periodic registration update / Barring per PLMN / Implicit AC barring list | Rel-15 | C21 | UEs supporting 5G Core |
| 11.3.5 | UAC / Access Identity 1 / New cell not in the country of its HPLMN/EHPLMN 0% access probability / MPS indicator / HPLMN/0%/100% accessibility AC5 / MMTEL-Video call | Rel-15 | C79 | UEs supporting 5G Core and Initiating session and MTSI video and MTSI video H.265 MP MT Level 3.1 and MTSI video H.264 CHP Level 3.1 and H.264 CBP Level 3.1 and NG114 v1.0 |
| 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 |
| 11.3.6a | UAC / Access Identity 2 / MCS indicator / SNPN / 0% / 100% accessibility AC7 / RRC\_INACTIVE | Rel-16 | C231 | UEs supporting 5G Core and SNPN and configuration of access identities in the list of subscriber data |
| 11.3.7 | UAC / Access Identity 11..15 / High priority access / HPLMN/0% accessibility AC2 / Emergency call | Rel-15 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 11.3.8 | UAC / Access Identity 0 / NR RRC\_IDLE / Cell re-selection while T390 is running | Rel-15 | C21 | UEs supporting 5G Core |
| 11.3.9 | UAC / Access Identity 0 / ODAC / PLMN / RPLMN / not EPLMN | Rel-15 | C21 | UEs supporting 5G Core |
| 11.3.9a | UAC / Access Identity 0 / ODAC / SNPN / RSNPN / new SNPN | Rel-16 | C131 | UEs supporting 5G Core and SNPN |
| 11.3.10 | UAC / Access Identity 0 / AC9 / 0% access probability / SIP Re-registration | Rel-16 | C198 | UEs supporting 5G Core and IMS security |
| 11.3.11 | UAC / Access Identity 1 / 0% access probability / release with redirect with mpsPriorityIndication / RRC\_INACTIVE | Rel-16 | C274A | UEs supporting 5G Core and RRC Connection release with MPS priority indication AND RRC\_INACTIVE |
| 11.3.12 | UAC / Access Identity 0 / AC7 / 0% access probability / Uplink user data transfer | Rel-15 | C21 | UEs supporting 5G Core |
| **11.4** | **Emergency Services** |  |  |  |
| 11.4.1 | 5GMM-REGISTERED.NORMAL-SERVICE / 5GMM-IDLE / Emergency call / Utilising emergency number stored on the USIM / New emergency PDU session / Network failing the authentication check (5G AKA) | Rel-15 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 11.4.1a | 5GMM-REGISTERED.NORMAL-SERVICE / 5GMM-IDLE / Emergency call / Utilising emergency number stored on the USIM / New emergency PDU session / PEIPS assistance information | Rel-17 | C224A | UEs supporting 5G Core and PEI and PEIPS |
| 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 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 11.4.3 | 5GMM-DEREGISTERED.NO-SUPI / Emergency call / Utilisation of emergency numbers stored on the ME / Initial registration for emergency services | Rel-15 | C238 | UEs supporting 5G Core and emergency services in NR connected to 5GCN and  test execution with No USIM |
| 11.4.4 | 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE T3346 running / Emergency call establishment / 5GMM-REGISTERED.NORMAL-SERVICE / Emergency call establishment before T3396 expiry | Rel-15 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 11.4.5 | 5GMM-REGISTERED.LIMITED-SERVICE / 5GMM-IDLE / Emergency call establishment and release / Handling of 5GS forbidden tracking areas for roaming | Rel-15 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 11.4.6 | 5GMM-REGISTERED.NON-ALLOWED-SERVICE / Emergency call establishment and release / Handling of non-allowed tracking areas | Rel-15 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 11.4.7 | Handling of Local and Extended emergency numbers / Mobility | Rel-15 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 11.4.8 | Handling of Local and extended emergency numbers / Switch-off and maximum local numbers storage | Rel-15 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 11.4.9 | 5GMM-DEREGISTERED.LIMITED-SERVICE No suitable cells in tracking area / Emergency call establishment and release | Rel-15 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 11.4.10 | Void |  |  |  |
| 11.4.10a | 5GMM-REGISTERED.NORMAL-SERVICE / N26 interface not supported / N1 mode to S1 mode transfer of an existing emergency PDU session | Rel-15 | C85B | UEs supporting 5G core and Emergency PDU session transfer from N1 mode to S1 mode when network does not support N26 interface, and, E-UTRA and EPS IMS emergency call (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") and IMS voice over NR |
| 11.4.11 | 5GMM-REGISTERED.NORMAL-SERVICE / N26 interface not supported / S1 mode to N1 mode transfer of an existing emergency PDN connection | Rel-15 | C85A | UEs supporting 5G core and Emergency PDN connection transfer from S1 mode to N1 mode when network does not support N26 interface, and, E-UTRA and EPS IMS emergency call (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") and emergency services in NR connected to 5GCN |
| 11.4.12 | 5GMM-REGISTERED.NORMAL-SERVICE / 5GMM-IDLE / Emergency call / Disabling N1 mode / Emergency call establishment over EPS / Success | Rel-15 | C176 | UEs supporting 5G Core and E-UTRA and EPS IMS emergency call (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") |
| 11.4.13 | 5GMM-REGISTERED.NORMAL-SERVICE / 5GMM-IDLE / Emergency call / obtaining new IP address different than the IP address | Rel-15 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 11.4.14 | 5GMM-REGISTERED.NORMAL-SERVICE / 5GMM-IDLE / Emergency call /Deregistration upon emergency registration expiration | Rel-15 | C92 | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| 11.4.15 | 5GMM-REGISTERED.NORMAL-SERVICE / 5GMM-IDLE / Emergency call / SNPN | Rel-17 | C306 | UEs supporting 5G Core and emergency services in NR connected to 5GCN in SNPN Access mode |
| **11.5** | **eCall over IMS** |  |  |  |
| 11.5.1 | eCall Only mode / T3444 / eCall inactivity procedure / Removal of eCall only restriction after an eCall over IMS / 5GS to EPS | Rel-16 | C170 | UEs supporting 5G Core and E-UTRA and IMS eCall Only type of emergency services over 5GS and Manual type of eCall initiation |
| 11.5.2 | eCall Only mode / T3445 / eCall inactivity procedure / Removal of eCall only restriction after a call to URI for test service / 5GS to EPS | Rel-16 | C171 | UEs supporting 5G Core and E-UTRA and IMS eCall Only type of emergency services over 5GS and Manual type of eCall initiation and capable of triggering a Test eCall |
| 11.5.3 | eCall Only mode / 5GS supports IMS voice over PS session / 5GS does not support emergency service / eCall over EPS / eCall failure if EPS and CS domain are not available | Rel-16 | C197 | UEs supporting 5G Core and E-UTRA and IMS eCall Only type of emergency services over 5GS and Automatic type of eCall initiation |
| 11.5.4 | eCall Only mode / 5GS supports IMS voice over PS session / 5GS supports emergency service / eCall over IMS is supported on 5GS / RACH failure in NR cell / eCall over EPS | Rel-16 | C197 | UEs supporting 5G Core and E-UTRA and IMS eCall Only type of emergency services over 5GS and Automatic type of eCall initiation |
| 11.5.5 | eCall Only mode / Limited service state / Call to URI for test service should not be attempted / eCall over IMS should be attempted / 5GS | Rel-16 | C174 | UEs supporting 5G Core and IMS eCall Only type of emergency services over 5GS and Manual type of eCall initiation and capable of triggering a Test eCall |
| 11.5.6 | eCall capable / 5GS supports IMS voice over PS session / 5GS supports emergency service / eCall over IMS is not supported / eCall using the CS domain / emergency call over IMS if eCall using the CS domain is not available / UTRA | Rel-16 | C185 | UEs supporting 5G Core and UTRA and IMS eCall type of emergency services over 5GS and Automatic type of eCall initiation and emergency services in NR connected to 5GCN |
| 11.5.7 | eCall Only mode / SRVCC Handover to CS domain / UTRAN / MSD Update / Success / 5GS | Rel-16 | C186 | UEs supporting 5G Core and UTRA and IMS eCall Only type of emergency services over 5GS and Manual type of eCall initiation and NR to UTRA-FDD CELL\_DCH CS handover |
| 11.5.8 | eCall Only mode / 5GS supports IMS voice over PS session / 5GS supports emergency service / eCall over IMS is supported / RACH failure in NR cell / eCall using the CS domain | Rel-16 | C188 | UEs supporting 5G Core and (UTRA OR GERAN) and IMS eCall Only type of emergency services over 5GS and Automatic type of eCall initiation |
| 11.5.9 | eCall only mode / Manual initiation / Emergency registration / Abnormal case / IM CN sends a 486 (Busy Here) / UE performs eCall in CS domain / UTRAN or GERAN / 5GS | Rel-16 | C187 | UEs supporting 5G Core and (UTRA OR GERAN) and IMS eCall Only type of emergency services over 5GS and Manual type of eCall initiation |
| 11.5.10 | eCall only mode / Automatic initiation / Emergency registration / Abnormal case / IM CN sends a 600 (Busy Everywhere) / UE performs eCall in CS domain / UTRAN or GERAN / 5GS | Rel-16 | C188 | UEs supporting 5G Core and (UTRA OR GERAN) and IMS eCall Only type of emergency services over 5GS and Automatic type of eCall initiation |
| 11.5.11 | eCall only mode / Automatic initiation / Emergency registration / Abnormal case / IM CN sends a 603 (Decline) / UE performs eCall in CS domain / UTRAN or GERAN / 5GS | Rel-16 | C188 | UEs supporting 5G Core and (UTRA OR GERAN) and IMS eCall Only type of emergency services over 5GS and Automatic type of eCall initiation |
| 11.5.12 | eCall Only mode / 5GS supports IMS voice over PS session / 5GS supports emergency service / eCall over IMS is not supported on 5GS / eCall over EPS | Rel-16 | C197 | UEs supporting 5G Core and E-UTRA and IMS eCall Only type of emergency services over 5GS and Automatic type of eCall initiation |
| 11.5.13 | eCall over IMS / Manual initiation / MSD transfer Failure / UE performs eCall in CS domain after Timer expiry / UTRAN or GERAN / 5GS | Rel-16 | C189 | UEs supporting 5G Core and (UTRA OR GERAN) and eCall type of emergency services over 5GS and Manual type of eCall initiation |
| 11.5.14 | eCall Only mode / 5GS supports IMS voice over PS session / 5GS does not support emergency service / eCall using CS domain | Rel-16 | C188 | UEs supporting 5G Core and (UTRA OR GERAN) and IMS eCall Only type of emergency services over 5GS and Automatic type of eCall initiation |
| **11.6** | **3GPP PS Data Off** |  |  |  |
| 11.6.1 | Data Off / MO Voice Call | Rel-15 | C162 | UEs supporting 5G Core and NG.114 v1.0 default configuration voice exempt and 3GPP PS data off and Initiating session and MTSI speech |
| 11.6.2 | Data Off / MO Video Call | Rel-15 | C172 | UEs supporting 5G Core and NG.114 v2.0 default configuration video exempt and 3GPP PS data off and Initiating session and MTSI video and MTSI video H.265 MP MT Level 3.1 and MTSI video H.264 CHP Level 3.1 and H.264 CBP Level 3.1 |
| 11.6.3 | Data Off / SMSoIP | Rel-15 | C162A | UEs supporting 5G Core and NG.114 v2.0 and 3GPP PS data off and Initiating session and SMS over IP |
| **11.7** | **eDRX** |  |  |  |
| 11.7.1 | eDRX / IDLE | Rel-17 | C210 | UEs supporting 5G Core and eDRX |
| 11.7.2 | eDRX / Inactive / RAN-initiated paging | Rel-17 | C210A | UEs supporting 5G Core and eDRX and RRC\_INACTIVE |
| 11.7.3 | eDRX / Inactive / CN-initiated paging / eDRX Allowed / Not Allowed | Rel-17 | C210A | UEs supporting 5G Core and eDRX and RRC\_INACTIVE |
| **11.8** | **Inter-system mobility between untrusted Non-3GPP and 3GPP system** |  |  |  |
| 11.8.1 | Inter-system mobility between untrusted Non-3GPP and 3GPP system/Handover from NR to N3IWF/5GC | Rel-15 | C276 | UEs supporting 5G Core and handover from 5G Core Network to 5G Core over non-3GPP Access Network and WLAN |
| 11.8.2 | Inter-system mobility between untrusted Non-3GPP and 3GPP system/Handover from N3IWF/5GC to NR / UE in 5GMM-DEREGISTERED states | Rel-15 | C248 | UEs supporting 5G Core and handover from 5G Core over non-3GPP Access Network to 5G Core Network and WLAN |
| 11.8.3 | Inter-system mobility between untrusted Non-3GPP and 3GPP system/Handover from E-UTRAN/EPC to N3IWF/5GC | Rel-15 | C277 | UEs supporting 5G Core and handover from EPC Network to 5G Core over non-3GPP Access Network and WLAN |
| 11.8.4 | Inter-system mobility between untrusted Non-3GPP and 3GPP system/Handover from N3IWF/5GC to E-UTRAN/EPC | Rel-15 | C249 | UEs supporting 5G Core and handover from 5G Core over non-3GPP Access Network to EPC Network and WLAN |
| 11.8.5 | Inter-system mobility between untrusted Non-3GPP and 3GPP system/Handover from 5GS to EPC/ePDG | Rel-15 | C208 | UEs supporting 5G Core and IMS and handover from 5G Core to EPC over non-3GPP Access Network and GSMA PRD IR.51: "IMS Profile for Voice, Video and SMS over Wi-Fi" and WLAN. |
| 11.8.6 | Inter-system mobility between untrusted Non-3GPP and 3GPP system/Handover from EPC/ePDG to 5GS/ UE in 5GMM-DEREGISTERED and EMM-DEREGISTERED states | Rel-15 | C237 | UEs supporting WLAN and GSMA PRD IR.51: "IMS Profile for Voice, Video and SMS over Wi-Fi" and handover from EPC over non-3GPP Access Network to 5G Core and IMS and 5G Core. |
| 11.9 | Inter-system mobility with established MA PDU session in 5GS |  |  |  |
| 11.9.1 | Inter-system mobility with established MA PDU session in 5GS/ATSSS/Single-registration mode with N26/establishing a PDN connection as the user plane resource of an MA PDU session is supported/Handover from NR/5GC to E-UTRAN/EPC | Rel-17 | C319 | UEs supporting 5G Core and E-UTRA and 5G core over non-3GPP Access Network and WLAN and R17 ATSSS of establishing a PDN connection as the user plane resource of an MA PDU session in 5GS |
| 11.9.2 | Inter-system mobility with established MA PDU session in 5GS/ATSSS/Single-registration mode with N26/establishing a PDN connection as the user plane resource of an MA PDU session is not supported/Handover from NR/5GC to E-UTRAN/EPC/ | Rel-17 | C320 | UEs supporting 5G Core and E-UTRA and 5G core over non-3GPP Access Network and WLAN and R16 ATSSS |
| 11.9.3 | Inter-system mobility with established MA PDU session in 5GS/ATSSS/Single-registration mode without N26/establishing a PDN connection as the user plane resource of an MA PDU session is supported/Handover from NR/5GC to E-UTRAN/EPC | Rel-17 | C319 | UEs supporting 5G Core and E-UTRA and 5G core over non-3GPP Access Network and WLAN and R17 ATSSS of establishing a PDN connection as the user plane resource of an MA PDU session in 5GS |
| 11.9.4 | Inter-system mobility with established MA PDU session in 5GS/ATSSS/Single-registration mode without N26/establishing a PDN connection as the user plane resource of an MA PDU session is not supported/Handover from NR/5GC to E-UTRAN/EPC/ | Rel-17 | C320 | UEs supporting 5G Core and E-UTRA and 5G core over non-3GPP Access Network and WLAN and R16 ATSSS |

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

| **Clause** | **Specific ICS** | Specific IXIT | **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 |
| 11.1.8 |  |  |  | Rel-16 E-UTRA |
| 11.1.9 |  |  |  | Rel-16 E-UTRA |
| **11.2** |  |  |  |  |
| 11.2.1 |  |  |  | Rel-16 UTRA |
| **11.3** |  |  |  |  |
| 11.3.1 | pc\_inactiveState |  |  |  |
| 11.3.6 | pc\_inactiveState |  |  |  |
| 11.3.6a | pc\_inactiveState |  |  |  |
| **11.4** |  |  |  |  |
| 11.4.10a |  |  |  | Rel-15 E-UTRA |
| 11.4.11 |  |  |  | Rel-15 E-UTRA |
| **11.5** |  |  |  |  |
| 11.5.1 |  |  | Note 1 | Rel-15 E-UTRA |
| 11.5.2 |  |  | Note 1 | Rel-15 E-UTRA |
| 11.5.3 |  |  | Note 1 | Rel-15 E-UTRA |
| 11.5.4 |  |  | Note 1 | Rel-15 E-UTRA |
| 11.5.5 |  |  | Note 1 |  |
| 11.5.6 |  |  | Note 1 |  |
| 11.5.7 |  |  |  | Rel-16 UTRA |
| 11.5.8 |  | px\_NR\_RATComb\_Tested | Note 1 | Rel-9 UTRA |
| 11.5.9 |  | px\_NR\_RATComb\_Tested | Note 1 | Rel-9 UTRA |
| 11.5.10 |  | px\_NR\_RATComb\_Tested | Note 1 | Rel-9 UTRA |
| 11.5.11 |  | px\_NR\_RATComb\_Tested | Note 1 | Rel-9 UTRA |
| 11.5.12 |  |  | Note 1 | Rel-15 E-UTRA |
| 11.5.13 |  | px\_NR\_RATComb\_Tested | Note 1 | Rel-9 UTRA |
| 11.5.14 |  | px\_NR\_RATComb\_Tested | Note 1 | Rel-9 UTRA |
| Note 1: This test case can optionally be executed from Release 15 onwards. | | | | |

Table 4.1-6a: Applicability of Protocol conformance NR sidelink test cases, ref. TS 38.523-1 [2]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Clause | TC Title | Release | Applicability | |
|  |  |  | Condition | Comment |
| **12** | **NR sidelink** |  |  |  |
| **12.1** | **PC5-only operation** |  |  |  |
| **12.1.1** | **PC5-only operation / Sidelink communication** |  |  |  |
| 12.1.1.2 | PC5-only operation / Sidelink communication / Reception | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| **12.1.2** | **PC5-only operation / Sidelink synchronization related procedure** |  |  |  |
| 12.1.2.1 | PC5-only operation / Sidelink synchronization related procedure / Synchonization reference source (re-)selection | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| 12.1.2.2 | PC5-only operation / Sidelink synchronization related procedure / SL-SSB transmission Initiation and Cease | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| **12.1.3** | **PC5-only operation / Measurement configuration and reporting via PC5 RRC** |  |  |  |
| 12.1.3.1 | PC5-only operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement configuration | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| 12.1.3.2 | PC5-only operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement reporting / Event S1 and S2 | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| 12.1.3.3 | PC5-only operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement reporting / Periodical reporting | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| **12.1.4** | **PC5-only operation / Sidelink Reconfiguration via PC5 RRC** |  |  |  |
| 12.1.4.1 | PC5-only operation / Sidelink Reconfiguration via PC5 RRC / SL DRB management / initiating UE side | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| 12.1.4.2 | PC5-only operation / Sidelink Reconfiguration via PC5 RRC / SL DRB management / Peer UE side | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| **12.1.5** | **PC5-only operation / Sidelink CSI reporting** |  |  |  |
| 12.1.5.1 | PC5-only operation / Sidelink CSI reporting / Configuration | Rel-16 | C163 | UE supporting 5G core and NR sidelink and Sidelink CSI report |
| 12.1.5.2 | PC5-only operation / Sidelink CSI reporting / Reporting | Rel-16 | C163 | UE supporting 5G core and NR sidelink and Sidelink CSI report |
| **12.1.6** | **PC5-only operation / Sidelink failure** |  |  |  |
| 12.1.6.1 | PC5-only operation / Sidelink failure / PC5 RRC reconfiguration failure / Initiating UE side | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| 12.1.6.2 | PC5-only operation / Sidelink failure / PC5 RRC reconfiguration failure / Peer UE side | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| 12.1.6.3 | PC5-only operation / Sidelink failure / Sidelink radio link failure / Transmission side | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| 12.1.6.4 | PC5-only operation / Sidelink failure / Sidelink radio link failure / Reception side | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| **12.1.7** | **PC5-only operation / Sidelink UE capability transfer via PC5 RRC** |  |  |  |
| 12.1.7.1 | PC5-only operation / Sidelink UE capability transfer via PC5 RRC / One-way and two-way transfer | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| **12.2** | **Inter-carrier concurrent operation** |  |  |  |
| **12.2.1** | **Inter-carrier concurrent operation / Sidelink communication** |  |  |  |
| 12.2.1.2 | Inter-carrier concurrent operation / Sidelink communication / RRC\_IDLE / Reception | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| 12.2.1.3 | Inter-carrier concurrent operation / Sidelink communication / RRC\_CONNECTED / Transmission / Network scheduling | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| 12.2.1.5 | Inter-carrier concurrent operation / Sidelink communication / RRC\_CONNECTED / Transmission / Exceptional pool | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| 12.2.1.6 | Inter-carrier concurrent operation / Sidelink communication / RRC\_CONNECTED / Reception | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| **12.2.2** | **Inter-carrier concurrent operation / Sidelink synchronization related procedure** |  |  |  |
| 12.2.2.1 | Inter-carrier concurrent operation / Sidelink synchronization related procedure / Synchonization reference source (re-)selection | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| 12.2.2.2 | Inter-carrier concurrent operation / Sidelink synchronization related procedure / SL-SSB transmission Initiation and Cease | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| **12.2.3** | **Inter-carrier concurrent operation / Measurement configuration and reporting via Uu RRC** |  |  |  |
| 12.2.3.1 | Inter-carrier concurrent operation / Measurement configuration and reporting via Uu RRC / CBR measurement reporting / Event C1 and C2 | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| 12.2.3.2 | Inter-carrier concurrent operation / Measurement configuration and reporting via Uu RRC / CBR measurement reporting / Periodical reporting | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| **12.2.4** | **Inter-carrier concurrent operation / Sidelink Reconfiguration via Uu RRC** |  |  |  |
| 12.2.4.1 | Inter-carrier concurrent operation / Sidelink Reconfiguration via Uu RRC / SL DRB management / transmission side | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| **12.2.5** | **Inter-carrier concurrent operation / Measurement configuration and reporting via PC5 RRC** |  |  |  |
| 12.2.5.1 | Inter-carrier concurrent operation / Measurement configuration and reporting via PC5 RRC / SL-RSRP measurement configuration | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| 12.2.5.2 | Inter-carrier concurrent operation / Measurement configuration and reporting via PC5 RRC / SL-RSRP measurement reporting / Event S1 and S2 | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| 12.2.5.3 | Inter-carrier concurrent operation / Measurement configuration and reporting via PC5 RRC / PSBCH-RSRP measurement reporting / Periodical reporting | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| **12.2.6** | **Inter-carrier concurrent operation / Sidelink Reconfiguration via PC5 RRC** |  |  |  |
| 12.2.6.1 | Inter-carrier concurrent operation / Sidelink Reconfiguration via PC5 RRC / SL DRB management / Initiating UE side | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| **12.2.7** | **Inter-carrier concurrent operation / Sidelink CSI reporting** |  |  |  |
| 12.2.7.1 | Inter-carrier concurrent operation / Sidelink CSI reporting / Configuration | Rel-16 | C164 | UE supporting 5G core and NR sidelink mode 1 transmission and Sidelink CSI report |
| 12.2.7.2 | Inter-carrier concurrent operation / Measurement configuration and reporting via PC5 RRC / SL-RSRP measurement reporting / Event S1 and S2 | Rel-16 | C164 | UE supporting 5G core and NR sidelink mode 1 transmission and Sidelink CSI report |
| **12.2.8** | **Inter-carrier concurrent operation / Sidelink failure** |  |  |  |
| 12.2.8.1 | Inter-carrier concurrent operation / Sidelink CSI reporting / Reporting | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| 12.2.8.2 | Inter-carrier concurrent operation / Sidelink failure / PC5 RRC Reconfiguration Failure / Peer UE side | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| 12.2.8.3 | Inter-carrier concurrent operation / Sidelink failure / Sidelink radio link failure / transmission side | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |
| 12.2.9 | Inter-carrier concurrent operation / Sidelink UE capability transfer via PC5 RRC |  |  |  |
| 12.2.9.1 | Inter-carrier concurrent operation / Sidelink UE capability transfer via PC5 RRC / One-way and two-way transfer | Rel-16 | C106 | UE supporting 5G core and NR sidelink mode 1 transmission |

Table 4.1-6b: Additional Information of Applicability of Protocol conformance NR sidelink test cases, ref. TS 38.523-1 [2]

| **Clause** | **Specific ICS** | Specific IXIT | **Number of TC Executions** | **Release other RAT** |
| --- | --- | --- | --- | --- |
| TBD |  |  |  |  |

Table 4.1-7a: Applicability of Protocol conformance NR V2X layer test cases, ref. TS 38.523-1 [2]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Clause | TC Title | Release | Applicability | |
|  |  |  | Condition | Comment |
| **13** | **V2X layer** |  |  |  |
| **13.1** | **V2X policy provisioning** |  |  |  |
| 13.1.1 | V2X policy provisioning / Precedence / Validity timer expires / geographical area changes | Rel-16 | C166 | UE supporting 5G Core and V2X communication over NR-PC5 |
| **13.2** | **PC5 unicast** |  |  |  |
| 13.2.1 | PC5 unicast / link establishment / Reject / Conflict Layer 2 ID | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| 13.2.2 | PC5 unicast / link Security Mode | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| 13.2.3 | PC5 unicast / link modification | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| 13.2.4 | PC5 unicast / link Release / Reestablish PC5 unicast link to same UE | Rel-16 | C128 | UE supporting 5G core and NR sidelink |
| 13.2.5 | PC5 unicast / link identifier update | Rel-16 | C128 | UE supporting 5G core and NR sidelink transmission mode 2 |
| 13.2.6 | PC5 unicast / link keep alive | Rel-16 | C128 | UE supporting 5G core and NR sidelink |

Table 4.1-7b: Additional Information of Applicability of Protocol conformance NR V2X layer test cases, ref. TS 38.523-1 [2]

| **Clause** | **Specific ICS** | Specific IXIT | **Number of TC Executions** | **Release other RAT** |
| --- | --- | --- | --- | --- |
| **TBD** |  |  |  |  |

Table 4.1-8a: Applicability of Protocol conformance NR MBS test cases, ref. TS 38.523-1 [2]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Clause | TC Title | Release | Applicability | |
|  |  |  | Condition | Comment |
| **14** | **MBS** |  |  |  |
| **14.1** | **MBS Broadcast** |  |  |  |
| **14.1.1** | **MBS Broadcast/ MCCH Information Acquisition** |  |  |  |
| 14.1.1.1 | MBS Broadcast/ MCCH Information Acquisition/ entering the cell providing SIB20 | Rel-17 | C213 | UE supporting 5G Core and broadcast reception. |
| 14.1.1.2 | MBS Broadcast/ MCCH Information Acquisition/ becoming interested to receive MBS broadcast services | Rel-17 | C213 | UE supporting 5G Core and broadcast reception. |
| 14.1.1.3 | MBS Broadcast/ MCCH Information Acquisition/ MCCH Information change notification | Rel-17 | C213 | UE supporting 5G Core and broadcast reception. |
| **14.1.1.4** | **MBS Broadcast/ MCCH Information Acquisition/ receiving SIB20 of an SCell via dedicated signalling** |  |  |  |
| 14.1.1.4.1 | MBS Broadcast/ MCCH Information Acquisition/ receiving SIB20 of an SCell via dedicated signalling / Intra-band Contiguous CA | Rel-17 | C280 | UE supporting 5G Core and broadcast reception on SCell and Intra-band Contiguous CA |
| 14.1.1.4.2 | MBS Broadcast/ MCCH Information Acquisition/ receiving SIB20 of an SCell via dedicated signalling / Inter-band CA | Rel-17 | C281 | UE supporting 5G Core and broadcast reception on SCell and Inter-band CA |
| 14.1.1.4.3 | MBS Broadcast/ MCCH Information Acquisition/ receiving SIB20 of an SCell via dedicated signalling / Intra-band non Contiguous CA | Rel-17 | C282 | UE supporting 5G Core and broadcast reception on SCell and Intra-band non-Contiguous CA |
| **14.1.2** | **MBS Broadcast/ Service Continuity** |  |  |  |
| 14.1.2.1 | MBS Broadcast/ Service Continuity/ Cell reselection/ frequency prioritization | Rel-17 | C213 | UE supporting 5G Core and broadcast reception. |
| 14.1.2.2 | MBS Broadcast/ Service Continuity/ Handover/ MBS Interest Indication/ inter-frequency | Rel-17 | C213 | UE supporting 5G Core and broadcast reception. |
| 14.1.2.3 | MBS Broadcast/ Service Continuity/ Handover/ MBS Interest Indication/ intra-frequency | Rel-17 | C213 | UE supporting 5G Core and broadcast reception. |
| **14.1.3** | **MBS Broadcast/ MAC** |  |  |  |
| 14.1.3.1 | MBS Broadcast/ MAC/ Correct HARQ process handling | Rel-17 | C213 | UE supporting 5G Core and broadcast reception. |
| 14.1.3.2 | MBS Broadcast/ MAC/ DRX operation | Rel-17 | C213 | UE supporting 5G Core and broadcast reception. |
| **14.2** | **MBS Multicast** |  |  |  |
| **14.2.1** | **MBS Multicast/ MAC** |  |  |  |
| **14.2.1.1** | **MBS Multicast/ MAC / DL Data Transfer** |  |  |  |
| 14.2.1.1.1 | MBS Multicast / MAC / DL Data Transfer / PTM transmission / PTP transmission / DCI format 4\_1 | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.1.1.2 | MBS Multicast / MAC / DL Data Transfer/ PTM transmission/ DCI format 4\_2 | Rel-17 | C283 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and DCI formate 4\_2 |
| 14.2.1.1.3 | MBS Multicast / MAC / DL Data Transfer/ PTM transmission / PTP transmission / Multiple G-RNTIs | Rel-17 | C295 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and Multiple G-RNTIs. |
| 14.2.1.1.4 | MBS Multicast/ MAC / DL Data Transfer/ PTM retransmission for multicast/ RRC-based enabling-disabling HARQ feedback for Multicast / ACK-NACK | Rel-17 | C215 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for dynamic scheduling for multicast |
| 14.2.1.1.5 | MBS Multicast/ MAC / DL Data Transfer/ PTP retransmission for multicast/ RRC-based enabling-disabling HARQ feedback for Multicast/ ACK-NACK | Rel-17 | C216 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for dynamic scheduling for multicast and PTP retransmission for multicast on the same cell as multicast initial transmission |
| 14.2.1.1.6 | MBS Multicast/ MAC / DL Data Transfer/ PTM retransmission for multicast/ DCI-based enabling-disabling HARQ feedback for Multicast/ ACK-NACK | Rel-17 | C284 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and DCI formate 4-2 and DCI-based enabling/disabling ACK/NACK based HARQ-ACK feedback configured per G-RNTI by RRC signalling via DCI format 4\_2 |
| 14.2.1.1.7 | MBS Multicast/ MAC / DL Data Transfer/ RRC-based enabling-disabling HARQ feedback for Multicast / NACK-only | Rel-17 | C252 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and NACK-only based HARQ-ACK feedback for multicast with ACK/NACK transforming |
| 14.2.1.1.8 | MBS Multicast/ MAC / DL Data Transfer/ Multiplex multicast HARQ-ACK information with unicast HARQ-ACK information | Rel-17 | C253 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for dynamic scheduling for multicast and multiplexing HARQ-ACK for unicast and for multicast with the same priority and different HARQ-ACK codebook types in a PUCCH or in a PUSCH |
| 14.2.1.1.9 | MBS Multicast/ MAC / DL Data Transfer/ DCI-based enabling-disabling HARQ feedback for Multicast/ NACK-only | Rel-17 | C285 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and DCI formate 4-2 and DCI-based enabling/disabling NACK-only based HARQ-ACK feedback configured per G-RNTI by RRC signalling via DCI format 4\_2 |
| **14.2.1.2** | **MBS Multicast/ MAC/ DRX operation** |  |  |  |
| 14.2.1.2.1 | MBS Multicast/ MAC/ DRX operation/ PTM transmission / PTP transmission | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.1.2.2 | MBS Multicast/ MAC/ DRX operation/ PTM retransmission for multicast | Rel-17 | C215 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for dynamic scheduling for multicast |
| 14.2.1.2.3 | MBS Multicast/ MAC/ DRX operation/ PTP retransmission for multicast | Rel-17 | C216 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for dynamic scheduling for multicast and PTP retransmission for multicast on the same cell as multicast initial transmission |
| **14.2.1.3** | **MBS Multicast/ MAC/ SPS** |  |  |  |
| 14.2.1.3.1 | MBS Multicast/ MAC/ SPS/ PTM transmission | Rel-17 | C296 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and SPS group common PDSCH for multicast on PCell. |
| 14.2.1.3.2 | MBS Multicast/ MAC/ SPS/ PTM retransmission for multicast | Rel-17 | C297 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and SPS group-common PDSCH for multicast on PCell and ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for SPS group-common PDSCH for multicast. |
| 14.2.1.3.3 | MBS Multicast/ MAC/ SPS/ PTP retransmission for multicast | Rel-17 | C298 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and SPS group-common PDSCH for multicast on PCell and ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for SPS group-common PDSCH for multicast and PTP retransmission associated with CS-RNTI for SPS multicast on the cell same as multicast initial transmission. |
| 14.2.1.3.4 | MBS Multicast/ MAC/ SPS/ CS-RNTI release | Rel-17 | C299 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and SPS group-common PDSCH for multicast on PCell and unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. |
| **14.2.2** | **MBS Multicast/ RLC** |  |  |  |
| 14.2.2.1 | MBS Multicast/ UM RLC / 6bit SN /Correct set initial value for UM receive state variable/ PTM | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.2.2 | MBS Multicast/ UM RLC / 12bit SN /Correct set initial value for UM receive state variable/ PTM | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| **14.2.3** | **MBS Multicast / PDCP** |  |  |  |
| 14.2.3.1 | MBS Multicast / PDCP/ PDCP HFN and SN maintenance / Non-Lossless handover / 12 bit SN | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.3.2 | MBS Multicast / PDCP/ PDCP HFN and SN maintenance / Non-Lossless handover / 18 bit SN | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.3.3 | MBS Multicast / PDCP/ PDCP HFN and SN maintenance /Lossless handover/ PDCP status report / 12 bit SN | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.3.4 | MBS Multicast / PDCP/ PDCP HFN and SN maintenance /Lossless handover/ PDCP status report / 18 bit SN | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| **14.2.4** | **MBS Multicast / RRC** |  |  |  |
| **14.2.4.1** | **MBS Multicast / RRC / Paging** |  |  |  |
| 14.2.4.1.1 | MBS Multicast / RRC / Paging for group notification / RRC\_IDLE | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.4.1.2 | MBS Multicast / RRC / Paging for group notification / RRC\_INACTIVE | Rel-17 | C254 | UE supporting 5G Core and dynamic scheduling for multicast for PCell and RRC\_INACTIVE |
| **14.2.4.2** | **MBS Multicast / RRC / MRB Reconfiguration** |  |  |  |
| 14.2.4.2.1 | MBS Multicast / RRC / MRB Reconfiguration / Establishment / Modification / Release / Success | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| **14.2.4.3** | **MBS Multicast/ RRC/ Handover** |  |  |  |
| 14.2.4.3.1 | MBS Multicast/ RRC/ Handover between multicast supporting cell / Success | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.4.3.2 | MBS Multicast / RRC / Handover between multicast supporting cell / Failure/ Re-establishment successful | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.4.3.3 | MBS Multicast/ RRC/ Handover between Multicast-supporting cell and Multicast non-supporting cell / Success | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| **14.2.5** | **MBS Multicast/ Session management** |  |  |  |
| **14.2.5.1** | **MBS Multicast/ Session management / Network-requested PDU session modification** |  |  |  |
| 14.2.5.1.1 | MBS Multicast/ Session management / Network-requested PDU session modification / Remove UE from multicast MBS session | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.5.1.2 | MBS Multicast/ Session management / Network-requested PDU session modification / MBS service area update | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| **14.2.5.2** | **MBS Multicast/ Session management / UE-requested PDU session establishment / UE-requested PDU session modification** |  |  |  |
| 14.2.5.2.1 | MBS Multicast/ Session management / UE-requested PDU session establishment / UE-requested PDU session modification / Join MBS multicast session / Accepted | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.5.2.2 | MBS Multicast/ Session management / UE-requested PDU session establishment / UE-requested PDU session modification / Join MBS multicast session / Rejected / User is outside of local MBS service area | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.5.2.3 | MBS Multicast/ Session management / UE-requested PDU session establishment / UE-requested PDU session modification / Join MBS multicast session / Rejected / MBS session has not started or will not start soon | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |
| 14.2.5.2.4 | MBS Multicast/ Session management / UE-requested PDU session modification / Leave MBS multicast session / Accepted | Rel-17 | C214 | UE supporting 5G Core and dynamic scheduling for multicast for PCell |

Table 4.1-8b: Additional Information of Applicability of Protocol conformance NR MBS test cases, ref. TS 38.523-1 [2]

| Clause | Specific ICS | Specific IXIT | Number of TC Executions | Release other RAT |
| --- | --- | --- | --- | --- |
| 14 |  |  |  |  |
| 14.1 |  |  |  |  |
| 14.1.1 |  |  |  |  |
| 14.1.1.1 | pc\_inactiveState |  |  |  |
| 14.1.2 |  |  |  |  |
| 14.1.2.1 | pc\_inactiveState |  |  |  |
| 14.1.3 |  |  |  |  |
| 14.1.3.2 | pc\_inactiveState |  |  |  |
| **14.2.1** |  |  |  |  |
| **14.2.1.1** |  |  |  |  |
| 14.2.1.1.7 | pc\_mux\_HARQ\_ACK\_UnicastMulticast\_r17 |  |  |  |

## 4.2 Protocol conformance test cases applicability conditions

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 |
| C07A | IF A.4.3.4-1/1A THEN R ELSE N/A | UEs supporting 5GS and RLC AM with 18-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 |
| C08A | IF A.4.3.3-1/1A THEN R ELSE N/A | UEs supporting 5GS and 18-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.4.1-3/2 AND A.4.3.7-1/2 THEN R ELSE N/A | UEs supporting EN-DC 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 ELSE 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 OR A.4.3.6-1/40) 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 and CSI-RSRQ 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.4.3.7-1/3 AND A.4.3.7-1/1 THEN R ELSE N/A | UEs supporting EN-DC and SRB3 and (UL transmission via either MCG path or SCG path for the split SRB) |
| 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 THEN R ELSE N/A | UEs supporting 5G core over non-3GPP Access Network and WLAN |
| C30 | IF A.4.1-5/2 AND A.4.3.7-1/6 AND [10] A.4.1-1/5 THEN R ELSE N/A | UEs supporting 5G core over non-3GPP Access Network and 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 |
| C32a | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.4-1/6 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and logged MDT |
| 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 (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 [10] A.4.4-1/69 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 |
| 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.4.3.7-1/9 THEN R ELSE N/A | UEs supporting 5G Core and additional UE-requested PDU establishment |
| C39A | IF A.4.1-5/1 AND A.4.3.7-1/9 AND A.4.3.7-1/54 THEN R ELSE N/A | UEs supporting 5G Core and additional UE-requested PDU establishment and support of EAP-AKA’ as EAP method for PDU session authentication and authorization |
| C40 | 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 |
| C41 | IF A.4.1-5/1 AND (A.4.1-4A/1 OR A.4.1-4A/3) THEN R ELSE 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 |
| C44A | IF A.4.1-3/2 AND (A.4.1-4A/1 OR A.4.1-4A/3) AND A.4.3.2B.2.0-1A/2 THEN R ELSE N/A | UEs supporting EN-DC and intra-band contiguous CA and EN-DC with 2 NR DL carriers |
| 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 |
| C45A | IF A.4.1-3/2 AND (A.4.1-4A/5 OR A.4.1-4A/6 OR A.4.1-4A/7) AND A.4.3.2B.2.0-1A/2 THEN R ELSE N/A | UEs supporting EN-DC and inter-band contiguous CA and EN-DC with 2 NR DL carriers |
| 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 |
| C46A | IF A.4.1-3/2 AND (A.4.1-4A/2 OR A.4.1-4A/4) AND A.4.3.2B.2.0-1A/2 THEN R ELSE N/A | UEs supporting EN-DC and intra-band non-contiguous CA and EN-DC with 2 NR DL carriers |
| C47 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND [10] A.4.2.1.1-1/4 AND A.4.3.7-1/11 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and EPS IMS emergency call (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") and Emergency Services Fallback in NR connected to 5GCN |
| C48 | Void |  |
| C49 | IF A.4.1-5/1 AND A.4.3.6-1/2 THEN R ELSE N/A | 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.4.3.6-1/42 THEN R ELSE N/A | UEs supporting 5G Core and Inter-RAT E-UTRA measurements and Event B triggered reporting and E-UTRA RS-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 OR A.4.3.6-1/40) 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 and CSI-RSRQ 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 EPS IMS Voice (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") 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.4.1-4A/3) AND A.4.3.2B.2.0-1A/2 AND A.4.3.7-1/3 THEN R ELSE N/A | UEs supporting EN-DC and NR measurements and Event A triggered reporting and intra-band contiguous CA and EN-DC with 2 NR DL carriers and SRB3 |
| 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) AND A.4.3.2B.2.0-1A/2 AND A.4.3.7-1/3 THEN R ELSE N/A | UEs supporting EN-DC and NR measurements and Event A triggered reporting and inter-band CA and EN-DC with 2 NR DL carriers and SRB3 |
| C57 | IF A.4.1-3/2 AND A.4.3.6-1/1 AND (A.4.1-4A/2 OR A.4.1-4A/4) AND A.4.3.2B.2.0-1A/2 AND A.4.3.7-1/3 THEN R ELSE N/A | UEs supporting EN-DC and NR measurements and Event A triggered reporting and intra-band non-contiguous CA and EN-DC with 2 NR DL carriers and SRB3 |
| C58 | IF A.4.1-5/2 AND [10] A.4.1-1/5.AND A.4.4-1/1 | UEs supporting 5G core over non-3GPP Access Network, WLAN and (ICMP or ICMP IPv6) |
| C59 | IF A.4.1-5/1 AND A.4.3.6-1/8 THEN R ELSE N/A | UEs supporting 5G Core and Support acquisition of relevant 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.4.3.3-1/6 THEN R ELSE N/A | UEs supporting EN-DC and PDCP duplication over split SRB1/2 |
| C62 | IF A.4.1-3/2 AND A.4.3.3-1/4 THEN R ELSE N/A | UEs supporting EN-DC 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.4.3.2-1/23 THEN R ELSE N/A | UEs supporting 5GS and The maximum number of spatial multiplexing layer(s) supported by the UE for DL reception is 8 Layers. 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.4.3.2-1/23 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 is 8 Layers. 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.4.3.2-1/24 OR A.4.3.2-1/24A) AND (A.4.3.2-1/42 OR A.4.3.2-1/42a OR A.4.3.2-1/42b OR A.4.3.2-1/43 OR A.4.3.2-1/43a OR A.4.3.2-1/43b) THEN R ELSE N/A | UEs supporting 5GS and (DCI and timer based active BWP switching delay type1 or type2) and ((BWP adaptation up to 2 NR FR1 FDD or NR FR1 TDD or NR FR2) or (BWP adaptation up to 4 NR FR1 FDD or NR FR1 TDD or NR FR2)) |
| C67 | IF A.4.1-3/2 AND (A.4.1-4A/1 OR A.4.1-4A/3) AND A.4.3.2B.2.0-1A/2 THEN R ELSE N/A | UEs supporting EN-DC and Intra-Band Contiguous CA and EN-DC with 2 NR DL carriers |
| C68 | IF A.4.1-3/2 AND (A.4.1-4A/2 OR A.4.1-4A/4) AND A.4.3.2B.2.0-1A/2 THEN R ELSE N/A | UEs supporting EN-DC and Intra-Band Non-Contiguous CA and EN-DC with 2 NR DL carriers |
| C69 | IF A.4.1-3/2 AND (A.4.1-4A/5 OR A.4.1-4A/6 OR A.4.1-4A/7) AND A.4.3.2B.2.0-1A/2 THEN R ELSE N/A | UEs supporting EN-DC and Inter-Band CA and EN-DC with 2 NR DL carriers |
| C70 | IF A.4.3.5-1/1 AND A.4.3.5-1/2 THEN R ELSE N/A | UEs supporting 5GS and Long DRX Cycle and Short DRX Cycle |
| C71 | IF A.4.1-3/2 AND A.4.3.7-1/3 AND A.4.3.6-1/3 THEN R ELSE N/A | UEs supporting EN-DC and SRB3 and NR intra-frequency and inter-frequency measurements and at least periodical reporting |
| C72 | IF A.4.1-5/1 AND (A.4.1-4A/1 OR A.4.1-4A/3) AND A.4.3.3-1/3 AND A.4.3.2A.1-2/1 THEN R ELSE N/A | UEs supporting 5G Core and intra-band contiguous CA and CA-based PDCP duplication over MCG or SCG DRB and UL NR CA with 2 carriers |
| C73 | IF A.4.1-5/1 AND (A.4.1-4A/5 OR A.4.1-4A/6 OR A.4.1-4A/7) AND A.4.3.3-1/3 AND A.4.3.2A.1-2/1 THEN R ELSE N/A | UEs supporting 5G Core and inter-band CA and CA-based PDCP duplication over MCG or SCG DRB and UL NR CA with 2 carriers |
| C74 | IF A.4.1-5/1 AND (A.4.1-4A/2 OR A.4.1-4A/4) AND A.4.3.3-1/3 AND A.4.3.2A.1-2/1 THEN R ELSE N/A | UEs supporting 5G Core and intra-band non-contiguous CA and CA-based PDCP duplication over MCG or SCG DRB and UL NR CA with 2 carriers |
| C75 | IF A.4.1-3/2 AND A.4.3.7-1/3 AND (A.4.1-4A/1 OR A.4.1-4A/3) AND A.4.3.3-1/3 AND A.4.3.2B.2.0-2A/2 THEN R ELSE N/A | UEs supporting EN-DC and SRB3 and intra-band contiguous CA and CA-based PDCP duplication over MCG or SCG DRB and EN-DC with 2 NR UL carriers |
| C76 | IF A.4.1-3/2 AND A.4.3.7-1/3 AND (A.4.1-4A/5 OR A.4.1-4A/6 OR A.4.1-4A/7) AND A.4.3.3-1/3 AND A.4.3.2B.2.0-2A/2 THEN R ELSE N/A | UEs supporting EN-DC and SRB3 and inter-band CA and CA-based PDCP duplication over MCG or SCG DRB and EN-DC with 2 NR UL carriers |
| C77 | IF A.4.1-3/2 AND A.4.3.7-1/3 AND (A.4.1-4A/2 OR A.4.1-4A/4) AND A.4.3.3-1/3 AND A.4.3.2B.2.0-2A/2 THEN R ELSE N/A | UEs supporting EN-DC and SRB3 and intra-band non-contiguous CA and CA-based PDCP duplication over MCG or SCG DRB and EN-DC with 2 NR UL carriers |
| C78 | IF A.4.1-5/1 AND A.4.3.7-1/32 AND [9] A.3A/50 AND [9] A.4/2B AND [9] A.15/1 AND [9] A.3A/61 THEN R ELSE N/A | UEs supporting 5G Core and IMS voice over NR and Initiating session and MTSI speech and SMS over IP |
| C79 | IF A.4.1-5/1 AND [9] A.3A/50 AND [9] A.4/2B AND [9] A.15/3 AND [9] A.15/11 AND [9] A.15/12 AND [9] A.15/13 AND [9] A.21/1 THEN R ELSE N/A | UEs supporting 5G Core and Initiating session and MTSI video and MTSI video H.265 MP MT Level 3.1 and MTSI video H.264 CHP Level 3.1 and H.264 CBP Level 3.1 and NG114 v1.0 |
| C80 | IF A.4.1-4/6 THEN R ELSE N/A | UEs supporting NR-DC |
| C81 | IF A.4.1-5/1 AND (A.4.1-4A/1 OR A.4.1-4A/3) AND A.4.3.2A.1-2/1 THEN R ELSE N/A | UEs supporting 5G Core and intra-band contiguous CA and UL NR CA with 2 carriers |
| C81A | IF A.4.1-3/2 AND A.4.1-4/1 AND A.4.3.2B.2.0-2A/2 THEN R ELSE N/A | UEs supporting EN-DC and intra-band contiguous CA and EN-DC with 2 NR UL carriers |
| C82 | IF A.4.1-5/1 AND (A.4.1-4A/5 OR A.4.1-4A/6 OR A.4.1-4A/7) AND A.4.3.2A.1-2/1 THEN R ELSE N/A | UEs supporting 5G Core and inter-band CA and UL NR CA with 2 carriers |
| C82A | IF A.4.1-3/2 AND (A.4.1-4/3 OR A.4.1-4/4 OR A.4.1-4/5) AND A.4.3.2B.2.0-2A/2 THEN R ELSE N/A | UEs supporting EN-DC and inter-band CA and EN-DC with 2 NR UL carriers |
| C83 | IF A.4.1-5/1 AND (A.4.1-4A/2 OR A.4.1-4A/4) AND A.4.3.2A.1-2/1 THEN R ELSE N/A | UEs supporting 5G Core and intra-band non-contiguous CA and UL NR CA with 2 carriers |
| C83A | IF A.4.1-3/2 AND A.4.1-4/2 AND A.4.3.2B.2.0-2A/2 THEN R ELSE N/A | UEs supporting EN-DC and intra-band non-contiguous CA and EN-DC with 2 NR UL carriers |
| C84 | IF A.4.1-5/1 AND [10] A.4.4-1/99 THEN R ELSE N/A | UEs supporting 5G Core and ZUC algorithm |
| C85 | Void |  |
| C85A | IF (A.4.1-5/1 AND A.4.4-2/9) AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND [10] A.4.2.1.1-1/4 AND A.4.3.7-1/14 THEN R ELSE N/A | UEs supporting 5G core and Emergency PDN connection transfer from S1 mode to N1 mode when network does not support N26 interface, and, E-UTRA and EPS IMS emergency call (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") and emergency services in NR connected to 5GCN |
| C85B | IF (A.4.1-5/1 AND A.4.4-2/8) AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND [10] A.4.2.1.1-1/4 AND A.4.3.7-1/32 THEN R ELSE N/A | UEs supporting 5G core and Emergency PDU session transfer from N1 mode to S1 mode when network does not support N26 interface, and, E-UTRA and EPS IMS emergency call (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") and IMS voice over NR |
| C86 | IF A.4.1-4/6 AND A.4.3.7-1/3 THEN R ELSE N/A | UEs supporting NR-DC and SRB3 |
| C87 | IF A.4.1-4/6 AND A.4.3.7-1/3 AND A.4.3.6-1/3 THEN R ELSE N/A | UEs supporting NR-DC and SRB3 and NR intra-frequency and inter-frequency measurements and at least periodical reporting |
| C88 | IF A.4.1-4/6 AND A.4.3.7-1/3 AND (A.4.1-4A/1 OR A.4.1-4A/3) AND A.4.3.3-1/3 AND A.4.3.2A.1-2/1 THEN R ELSE N/A | UEs supporting NR-DC and SRB3 and intra-band contiguous CA and CA-based PDCP duplication over MCG or SCG DRB and UL NR CA with 2 carriers |
| C89 | IF A.4.1-4/6 AND A.4.3.7-1/3 AND (A.4.1-4A/5 OR A.4.1-4A/6 OR A.4.1-4A/7) AND A.4.3.3-1/3 AND A.4.3.2A.1-2/1 THEN R ELSE N/A | UEs supporting NR-DC and SRB3 and inter-band CA and CA-based PDCP duplication over MCG or SCG DRB and UL NR CA with 2 carriers |
| C90 | IF A.4.1-4/6 AND A.4.3.7-1/3 AND (A.4.1-4A/2 OR A.4.1-4A/4) AND A.4.3.3-1/3 AND A.4.3.2A.1-2/1 THEN R ELSE N/A | UEs supporting NR-DC and SRB3 and intra-band non-contiguous CA and CA-based PDCP duplication over MCG or SCG DRB and UL NR CA with 2 carriers |
| C91 | IF A.4.1-5/1 AND [10] A.4.4-1/98 THEN R ELSE N/A | UEs supporting 5G Core and ManualModeNetworkSelectionException |
| C92 | IF A.4.1-5/1 AND A.4.3.7-1/14 THEN R ELSE N/A | UEs supporting 5G Core and emergency services in NR connected to 5GCN |
| C93 | IF A.4.1-3/2 AND A.4.3.6-1/1 AND A.4.3.6-1/3 AND (A.4.1-2/1 OR A.4.1-2/2 OR (A.4.1-1/1 AND A.4.1-1/2)) 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) and multiple NR bands |
| C94 | IF A.4.1-5/1 AND (A.4.1-2/1 OR A.4.1-2/2 OR (A.4.1-1/1 AND A.4.1-1/2)) THEN R ELSE N/A | UEs supporting 5G Core and multiple NR bands |
| C95 | 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 AND A.4.3.7-1/15 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and EPS IMS Voice (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") and EPS fallback and voiceFallbackIndication |
| C96 | IF A.4.1-5/1 AND A.4.1-3/2 AND A.4.3.8-1/10 THEN R ELSE N/A | UEs supporting 5G Core and EN-DC and inter-RAT Handover from NR to EN-DC |
| C97 | IF A.4.1-4/6 AND A.4.3.7-1/2 THEN R ELSE N/A | UEs supporting NR-DC and UL transmission via both MCG path and SCG path for the split DRB |
| C98 | IF A.4.1-4/6 AND A.4.3.3-1/4 THEN R ELSE N/A | UEs supporting NR-DC and PDCP duplication over split DRB |
| C99 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND (A.4.3.8-1/6 OR A.4.3.8-1/7 OR A.4.3.8-1/8)THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and (inter-RAT Handover to NR FR1 TDD from EUTRA connected to EPC or inter-RAT Handover to NR FR1 FDD from EUTRA connected to EPC or inter-RAT Handover to NR FR2 TDD from EUTRA connected to EPC) |
| C100 | IF A.4.1-5/1 AND [9] A.15/1 AND A.4.3.5-1/9 THEN R ELSE N/A | UEs supporting 5G Core and MTSI speech and bit rate recommendation query message |
| C101 | IF A.4.1-5/1 AND A.4.3.8-1/9 THEN R ELSE N/A | UEs supporting 5G Core and intra-frequency DAPS handover |
| C102 | Void |  |
| C103 | IF A.4.3.5-1/1 AND A.4.3.5-1/5 THEN R ELSE N/A | UEs supporting 5GS and Long DRX Cycle and DRX adaptation |
| C104 | IF (A.4.1-4A/1 OR A.4.1-4A/3) AND A.4.3.2A.1-1/2 AND A.4.3.2A.1-2/2 AND A.4.3.3-1/5 THEN R ELSE N/A | UEs supporting 5GC and Intra-band contiguous CA and DL and UL NR CA with 3 carriers and PDCP duplication with more than two RLC entities |
| C105 | IF (A.4.3.4-1/2 OR A.4.3.4-1/3) AND A.4.3.3-1/7 THEN R ELSE N/A | UEs supporting 5GS and RLC UM mode and PDCP ethernet header compression |
| C106 | IF A.4.1-5/1 AND A.4.3.10-1/1 THEN R ELSE N/A | UE supporting 5G core and NR sidelink mode 1 transmission |
| C107 | IF A.4.3.2-1/32 THEN R ELSE N/A | UE’s supporting multi-DCI based multi-TRP |
| C108 | IF A.4.1-5/1 AND A.4.3.7-1/17 THEN R ELSE N/A | UEs supporting 5G Core and RACS |
| C109 | IF A.4.1-5/1 AND A.4.3.7-1/19 THEN R ELSE N/A | UEs supporting 5G Core and RRC\_INACTIVE |
| C109A | IF A.4.1-5/1 AND A.4.3.7-1/19 AND A.4.4-2/10 THEN R ELSE N/A | UEs supporting 5G Core and RRC\_INACTIVE and UE’s usage setting as data centric |
| C110 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.3.7-1/19 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and RRC\_INACTIVE |
| C111 | IF A.4.1-5/1 AND (A.4.3.7-1/8 OR A.4.3.7-1/7) AND A.4.3.7-1/19 THEN R ELSE N/A | UEs supporting 5G Core and (ETWS reception or CMAS reception) and RRC\_INACTIVE |
| C112 | Void |  |
| C113 | IF A.4.1-5/1 AND A.4.3.2-1/1 AND A.4.3.2-1/121 THEN R ELSE N/A | UEs supporting 5G Core and PDSCH reception based on semi-persistent scheduling and up to 8 configured SPS configurations in a BWP of a serving cell and up to 32 configured SPS configurations in a cell group |
| C114 | IF A.4.1-5/1 AND A.4.3.5-1/6 THEN R ELSE N/A | UEs supporting 5GS and LCH-based UL grant prioritization |
| C115 | IF A.4.1-5/1 AND A.4.3.8-1/11 THEN R ELSE N/A | UEs supporting 5G Core and conditional handover |
| C116 | IF A.4.1-5/1 AND A.4.3.8-1/11 AND A.4.3.8-1/13 THEN R ELSE N/A | UEs supporting 5G Core and conditional handover and supporting 2 trigger events for same execution condition |
| C117 | IF A.4.1-5/1 AND A.4.3.8-1/11 AND A.4.3.8-1/12 THEN R ELSE N/A | UEs supporting 5G Core and conditional handover and conditional handover during re-establishment procedure when the selected cell is configured as candidate cell for condition handover |
| C118 | IF A.4.3.5-1/1 AND A.4.3.5-1/5 AND A.4.3.2-1/35 AND (A.4.1-4A/1 OR A.4.1-4A/3) THEN R ELSE N/A | UEs supporting 5GS and Long DRX Cycle and DRX adaptation and SCell Dormancy indication outside active time and intra-band contiguous CA |
| C119 | IF A.4.3.5-1/1 AND A.4.3.5-1/5 AND A.4.3.2-1/35 AND (A.4.1-4A/2 OR A.4.1-4A/4) THEN R ELSE N/A | UEs supporting 5GS and Long DRX Cycle and DRX adaptation and SCell Dormancy indication outside active time and intra-band non-contiguous CA |
| C120 | IF A.4.3.5-1/1 AND A.4.3.5-1/5 AND A.4.3.2-1/35 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 5GS and Long DRX Cycle and DRX adaptation and SCell Dormancy indication outside active time and inter-band CA |
| C121 | Void |  |
| C122 | IF A.4.1-5/1 AND A.4.4-1/5 THEN R ELSE N/A | UEs supporting 5G Core and UL PDCP Packet Delay per DRB |
| C123 | IF A.4.1-5/1 AND A.4.4-1/6 THEN R ELSE N/A | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| C124 | IF A.4.1-5/1 AND A.4.4-1/4 AND A.4.4-1/6 THEN R ELSE N/A | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE and equipped with a GNSS receiver to provide detailed location information |
| C125 | IF A.4.1-5/1 AND A.4.4-1/6 AND A.4.3.7-1/19 THEN R ELSE N/A | UEs supporting 5G core and RRC\_INACTIVE and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| C126 | IF A.4.1-5/1 AND A.4.4-1/4 THEN R ELSE N/A | UEs supporting 5G Core and equipped with a GNSS or A-GNSS receiver to provide detailed location information |
| C127 | IF A.4.1-5/1 AND [10] A.4.1-1/6 AND A.4.3.8-1/11 THEN R ELSE N/A | UEs supporting 5G Core and UTRA and NR to UTRA-FDD CELL\_DCH CS handover |
| C128 | IF A.4.1-5/1 AND A.4.1-1/3 THEN R ELSE N/A | UE supporting 5G core and NR sidelink |
| C129 | IF A.4.1-5/1 AND A.4.3.7-1/18 THEN R ELSE N/A | UEs supporting 5G Core and RRC message Segmentation in the UL |
| C130 | IF A.4.1-5/1 AND A.4.3.8-1/15 THEN R ELSE N/A | UEs supporting 5G Core and inter-frequency DAPS handover |
| C131 | IF A.4.1-5/1 AND A.4.3.7-1/24 THEN R ELSE N/A | UEs supporting 5G Core and SNPN |
| C132 | IF A.4.1-5/1 AND A.4.3.7-1/23 THEN R ELSE N/A | UEs supporting 5G Core and CAG |
| C133 | IF A.4.1-5/1 AND A.4.3.7-1/21 THEN R ELSE N/A | UEs supporting 5G Core and RRC connection release with Deprioritisation |
| C134 | IF A.4.3.2-1/45 THEN R ELSE N/A | UEs supporting PUSCH repetition type B |
| C135 | IF A.4.3.2-1/46 THEN R ELSE N/A | UEs supporting 2-Step RACH |
| C135A | IF A.4.1-5/1 AND A.4.3.2-1/46 THEN R ELSE N/A | UEs supporting 5G Core and 2-Step RACH |
| C136 | IF A.4.1-5/1 AND A.4.4-1/3 THEN R ELSE N/A | UEs supporting 5G Core and delivery of rachReport upon request from the network |
| C137 | IF A.4.1-5/1 AND A.4.4-1/6 AND A.4.4-1/12 THEN R ELSE N/A | UEs supporting 5G core and logged MDT and Bluetooth measurements in RRC\_IDLE and RRC\_INACTIVE state |
| C138 | IF A.4.1-5/1 AND A.4.4-1/6 AND A.4.4-1/13 THEN R ELSE N/A | UEs supporting 5G core and logged MDT and WLAN measurements in RRC\_IDLE and RRC\_INACTIVE state |
| C139 | IF A.4.1-5/1 AND (A.4.4-1/7 OR A.4.4-1/8 OR A.4.4-1/9) THEN R ELSE N/A | UEs supporting 5G Core and collection of sensor information such as Barometric pressure, UE speed, and UE orientation information as defined in TS 37.355 |
| C139a | IF A.4.1-5/1 AND (A.4.4-1/7 OR A.4.4-1/8 OR A.4.4-1/9) AND A.4.4-1/6 THEN R ELSE N/A | UEs supporting 5G Core and collection of sensor information such as Barometric pressure, UE speed, and UE orientation information as defined in TS 37.355 and logged MDT |
| C140 | IF A.4.1-5/1 AND A.4.4-1/10 THEN R ELSE N/A | UEs supporting 5G core and Bluetooth Measurement Collection in Immediate MDT |
| C141 | IF A.4.1-5/1 AND A.4.4-1/11 THEN R ELSE N/A | UEs supporting 5G core and WLAN Measurement Collection in Immediate MDT |
| C142 | IF A.4.1-5/1 AND A.4.3.5-1/10 THEN R ELSE N/A | UEs supporting 5G Core and PUSCH transmissions on multiple configured uplink grants |
| C143 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.4-1/4 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and standalone GNSS receiver to provide detailed location information |
| C144 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.4-1/6 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and logged measurements in RRC\_IDLE and RRC\_INACTIVE |
| C145 | IF A.4.1-5/1 AND A.4.3.7-1/29 THEN R ELSE N/A | UEs supporting 5G Core and release preference assistance information |
| C146 | IF A.4.3.2-1/52 THEN R ELSE N/A | UEs supporting monitoring DCI format 1\_2 for DL scheduling and monitoring DCI format 0\_2 for UL scheduling |
| C146a | Void | C |
| C147 | IF A.4.1-5/1 AND A.4.3.7-1/26 AND A.4.3.7-1/27 THEN R ELSE N/A | UEs supporting 5G Core and NSSAA and EAP-AKA’ for NSSAA |
| C148 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.3.7-1/21 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and RRC connection release with Deprioritisation |
| C149 | IF A.4.1-4/6 AND A.4.3.6-1/2 THEN R ELSE N/A | UEs supporting NR-DC and two independent measurement gap configurations for FR1 and FR2 |
| C150 | IF A.4.1-5/1 AND (A.4.3.6-1/48 OR A.4.3.6-1/49) THEN R ELSE N/A | UEs supporting 5G Core and SFTD measurements between NR PCell and NR neighbour cell |
| C151 | IF A.4.1-3/2 AND (A.4.3.6-1/43 OR A.4.3.6-1/44) AND (A.4.3.6-1/46 OR A.4.3.6-1/47) THEN R ELSE N/A | UEs supporting EN-DC and SFTD measurement between E-UTRA PCell and an NR neighbour cell, and SFTD measurement between E-UTRA PCell and NR PSCell |
| C152 | IF A.4.1-4/6 AND (A.4.3.6-1/48 OR A.4.3.6-1/49) AND (A.4.3.6-1/50 OR A.4.3.6-1/51) THEN R ELSE N/A | UEs supporting NR-DC and SFTD measurement between NR PCell and an NR neighbour cell, and SFTD measurement between NR PCell and NR PSCell |
| C153 | IF A.4.1-3/2 AND A.4.3.8-1/19 THEN R ELSE N/A | UEs supporting EN-DC and conditional PSCell change |
| C153A | IF A.4.1-3/2 AND (A.4.3.8-1/29 OR A.4.3.8-1/30 OR A.4.3.8-1/31) | UEs supporting EN-DC and MN initiated conditional PSCell change |
| C153B | IF A.4.1-3/1 AND A.4.3.8-1/28 | UEs supporting NR-DC and MN initiated conditional PSCell change |
| C154 | IF A.4.1-5/1 AND (A.4.1-4A/1 OR A.4.1-4A/3) AND A.4.3.7-1/19 AND A.4.3.5-1/14 THEN R ELSE N/A | UEs supporting 5G Core and intra-band contiguous CA and RRC\_INACTIVE and direct NR MCG SCell activation |
| C155 | IF A.4.1-5/1 AND (A.4.1-4A/2 OR A.4.1-4A/4) AND A.4.3.7-1/19 AND A.4.3.5-1/14 THEN R ELSE N/A | UEs supporting 5G Core and intra-band non-contiguous CA and RRC\_INACTIVE and direct NR MCG SCell activation |
| C156 | IF A.4.1-5/1 AND (A.4.1-4A/5 OR A.4.1-4A/6) AND A.4.3.7-1/19 AND A.4.3.5-1/14 THEN R ELSE N/A | UEs supporting 5G Core and inter-band CA and RRC\_INACTIVE- and direct NR MCG SCell activation |
| C157 | IF A.4.1-4/6 AND A.4.3.7-1/3 AND A.4.3.7-1/1 THEN R ELSE N/A | UEs supporting NR-DC and SRB3 and (UL transmission via either MCG path or SCG path for the split SRB) |
| C158 | IF A.4.1-5/1 AND A.4.1-4/6 AND A.4.3.7-1/19 THEN R ELSE N/A | UEs supporting 5G Core and NR-DC and RRC\_INACTIVE |
| C159 | IF A.4.1-5/2 AND [10] A.4.1-1/5 THEN R ELSE N/A | UEs supporting 5G core over non-3GPP Access Network and WLAN and additional UE-requested PDU establishment |
| C160 | IF A.4.1-3/3 THEN R ELSE N/A | UEs supporting NE-DC |
| C161 | IF A.4.1-5/1 AND A.4.3.7-1/21 AND [10] A.4.4-1/98 THEN R ELSE N/A | UEs supporting 5G Core and RRC connection release with Deprioritisation and ManualModeNetworkSelectionException |
| C162 | IF A.4.1-5/1 AND [9] A.22/8 AND A.4.3.7-1/36 AND [9] A.3A/50 AND [9] A.15/1 THEN R ELSE N/A | UEs supporting 5G Core and NG.114 v1.0 default configuration voice exempt and 3GPP PS data off and Initiating session and MTSI speech |
| C162A | IF A.4.1-5/1 AND [9] A.22/8 AND A.4.3.7-1/36 AND [9] A.3A/50 AND [9] A.3A/61 THEN R ELSE N/A | UEs supporting 5G Core and NG.114 v1.0 default configuration voice exempt and 3GPP PS data off and Initiating session and SMS over IP |
| C163 | IF A.4.1-5/1 AND A.4.1-1/3 AND A.4.3.10-1/3 THEN R ELSE N/A | UE supporting 5G core and NR sidelink and Sidelink CSI report |
| C164 | IF A.4.1-5/1 AND A.4.3.10-1/1 AND A.4.3.10-1/3 THEN R ELSE N/A | UE supporting 5G core and NR sidelink mode 1 transmission and Sidelink CSI report |
| C165 | IF A.4.1-5/1 AND A.4.3.7-1/33 THEN R ELSE N/A | UE supporting 5G Core and V2X communication |
| C166 | IF A.4.1-5/1 AND A.4.3.7-1/34 THEN R ELSE N/A | UE supporting 5G Core and V2X communication over NR-PC5 |
| C167 | IF A.4.1-5/1 AND A.4.3.7-1/24 AND A.4.3.7-1/30 THEN R ELSE N/A | UEs supporting 5G Core and SNPN and user initiated SNPN reselection in automatic mode on NR |
| C168 | IF A.4.1-5/1 AND A.4.3.7-1/23 AND A.4.3.7-1/31 THEN R ELSE N/A | UEs supporting 5G Core and CAG and Autonomous search function on NR |
| C169 | IF A.4.1-5/1 AND A.4.3.7-1/23 AND A.4.3.6-1/52 THEN R ELSE N/A | UEs supporting 5G Core and CAG and acquisition of CGI information from neighbour NR NPN cell |
| C170 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND [9]A.12/64 AND [11]A.10/16 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and IMS eCall Only type of emergency services over 5GS and Manual type of eCall initiation |
| C171 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND [9]A.12/64 AND [11]A.10/16 AND [11]A.10/19 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and IMS eCall Only type of emergency services over 5GS and Manual type of eCall initiation and capable of triggering a Test eCall |
| C172 | IF A.4.1-5/1 AND [9] A.22/9 AND A.4.3.7-1/36 AND [9] A.3A/50 AND [9] A.15/3 AND [9] A.15/11 AND [9] A.15/12 AND [9] A.15/13 THEN R ELSE N/A | UEs supporting 5G Core and NG.114 v2.0 default configuration video exempt and 3GPP PS data off and Initiating session and MTSI video and MTSI video H.265 MP MT Level 3.1 and MTSI video H.264 CHP Level 3.1 and H.264 CBP Level 3.1 |
| C173 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND [9] A.21/2 | UEs supporting 5G Core and E-UTRA and NG.114 v2.0 |
| C174 | IF A.4.1-5/1 AND [9]A.12/64 AND [11] A.10/16 AND [11] A.10/19 THEN R ELSE N/A | UEs supporting 5G Core and IMS eCall Only type of emergency services over 5GS and Manual type of eCall initiation and capable of triggering a Test eCall |
| C175 | IF A.4.3.5-1/11 THEN R ELSE N/A | UEs supporting 5GS and selection of logical channels for each UL grant based on RRC configured restriction |
| C176 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND [10] A.4.2.1.1-1/4 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and EPS IMS emergency call (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") |
| C177 | IF A.4.1-5/1 AND A.4.3.7-1/17 AND A.4.3.7-1/35 THEN R ELSE N/A | UEs supporting 5G Core and RACS and Manufacturer assigned Radio Capability ID |
| C178 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.3.7-1/17 AND [10]A.4.4-1/215THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and RACS |
| C179 | IF A.4.3.2-1/80 THEN R ELSE N/A | UEs supporting DCI DL Priority Indicator |
| C180 | IF A.4.3.2-1/81 AND A.4.3.2-1/82 THEN R ELSE N/A | UEs supporting DCI UL Priority Indicator and LCH grant prioritisation |
| C181 | IF (A.4.1-4A/2 OR A.4.1-4A/4) AND A.4.3.2A.1-1/2 AND A.4.3.2A.1-2/2 AND A.4.3.3-1/5 THEN R ELSE N/A | UEs supporting 5GC and Intra-band non-contiguous CA and DL and UL NR CA with 3 carriers and PDCP duplication with more than two RLC entities |
| C182 | IF A.4.1-3/3 AND A.4.3.6-1/1 AND A.4.3.6-1/3 THEN R ELSE N/A | UEs supporting NE-DC and NR measurements and Event A triggered reporting and (NR intra-frequency and inter-frequency measurements and at least periodical reporting). |
| C183 | IF A.4.1-3/3 AND A.4.3.6-1/1 AND A.4.3.6-1/3 AND (A.4.1-2/1 OR A.4.1-2/2 OR (A.4.1-1/1 AND A.4.1-1/2)) THEN R ELSE N/A | UEs supporting NE-DC and NR measurements and Event A triggered reporting and (NR intra-frequency and inter-frequency measurements and at least periodical reporting) and multiple NR bands |
| C184 | IF A.4.1-5/1 AND [9]A.12/64 AND [11]A.10/17 THEN R ELSE N/A | UEs supporting 5G Core and IMS eCall Only type of emergency services over 5GS and Automatic type of eCall initiation |
| C185 | IF A.4.1-5/1 AND [10] A.4.1-1/6 AND [9] A.12/63 AND [11] A.10/17 AND A.4.3.7-1/14 THEN R ELSE N/A | UEs supporting 5G Core and UTRA and IMS eCall type of emergency services over 5GS and Automatic type of eCall initiation and emergency services in NR connected to 5GCN |
| C186 | IF A.4.1-5/1 AND [10] A.4.1-1/6 AND [9] A.12/64 AND [11] A.10/16 AND A.4.3.8-1/14 THEN R ELSE N/A | UEs supporting 5G Core and UTRA and IMS eCall Only type of emergency services over 5GS and Manual type of eCall initiation and NR to UTRA-FDD CELL\_DCH CS handover |
| C187 | IF A.4.1-5/1 AND ([10] A.4.1-1/6 OR [10] A.4.1-1/7) AND [9] A.12/64 AND [11] A.10/16 THEN R ELSE N/A | UEs supporting 5G Core and (UTRA OR GERAN) and IMS eCall Only type of emergency services over 5GS and Manual type of eCall initiation |
| C188 | IF A.4.1-5/1 AND ([10] A.4.1-1/6 OR [10] A.4.1-1/7) AND [9] A.12/64 AND [11] A.10/17 THEN R ELSE N/A | UEs supporting 5G Core and (UTRA OR GERAN) and IMS eCall Only type of emergency services over 5GS and Automatic type of eCall initiation |
| C189 | IF A.4.1-5/1 AND ([10] A.4.1-1/6 OR [10] A.4.1-1/7) AND [9] A.12/63 AND [11] A.10/16 THEN R ELSE N/A | UEs supporting 5G Core and (UTRA OR GERAN) and eCall type of emergency services over 5GS and Manual type of eCall initiation |
| C190 | IF A.4.1-5/1 AND A.4.3.6-1/54 THEN R ELSE N/A | UEs supporting 5G Core and Idle/Inactive Measurements |
| C191 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.3.6-1/55 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and Idle/Inactive Measurements |
| C192 | IF A.4.1-5/1 AND A.4.3.7-1/19 AND A.4.3.6-1/54 THEN R ELSE N/A | UEs supporting 5G Core and RRC\_INACTIVE and Idle/Inactive Measurements |
| C193 | IF A.4.1-5/1 AND A.4.3.7-1/19 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.3.6-1/55 THEN R ELSE N/A | UEs supporting 5G Core and RRC\_INACTIVE and E-UTRA and Idle/Inactive Measurements |
| C194 | IF A.4.1-3/3 AND A.4.3.7-1/2 THEN R ELSE N/A | UEs supporting NE-DC and UL transmission via both MCG path and SCG path for the split DRB |
| C195 | IF A.4.1-4/6 AND A.4.3.3-1/6 THEN R ELSE N/A | UEs supporting NR-DC and PDCP duplication over split SRB1/2 | |
| C196 | IF A.4.1-3/3 AND A.4.3.3-1/6 THEN R ELSE N/A | UEs supporting NE-DC and PDCP duplication over split SRB1/2 | |
| C197 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND [9]A.12/64 AND [11]A.10/17 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and IMS eCall Only type of emergency services over 5GS and Automatic type of eCall initiation |
| C198 | IF A.4.1-5/1 AND [9] A.6a/2 THEN R ELSE N/A | UEs supporting 5G Core and IMS security | |
| C199 | IF A.4.1-3/2 AND A.4.3.5-1/12 AND (A.4.1-4A/1 OR A.4.1-4A/3) THEN R ELSE N/A | UEs supporting EN-DC, direct NR SCG SCell activation and Intra-Band Contiguous CA | |
| C200 | IF A.4.1-3/2 AND A.4.3.5-1/12 AND (A.4.1-4A/2 OR A.4.1-4A/4) THEN R ELSE N/A | UEs supporting EN-DC, direct NR SCG SCell activation and Intra-Band Non-Contiguous CA | |
| C201 | IF A.4.1-3/2 AND A.4.3.5-1/12 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, direct NR SCG SCell activation and Inter-Band CA | |
| C202 | IF A.4.1-4/6 AND A.4.3.5-1/12 AND (A.4.1-4A/1 OR A.4.1-4A/3) THEN R ELSE N/A | UEs supporting NR-DC, direct NR SCG SCell activation and intra-band contiguous CA | |
| C203 | IF A.4.1-4/6 AND A.4.3.5-1/12 AND (A.4.1-4A/2 OR A.4.1-4A/4) THEN R ELSE N/A | UEs supporting NR-DC, direct NR SCG SCell activation and intra-band non-contiguous CA | |
| C204 | IF A.4.1-4/6 AND A.4.3.5-1/12 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 NR-DC, direct NR SCG SCell activation and inter-band CA | |
| C205 | Void |  | |
| C206 | IF A.4.1-3/3 AND A.4.3.6-1/5 THEN R ELSE N/A | UEs supporting NE-DC and Inter-RAT E-UTRA measurements and Event B triggered reporting | |
| C207 | IF A.4.1-5/1 AND A.4.3.7-1/39 THEN R ELSE N/A | UEs supporting 5G core and reception of segmented DL RRC messages. | |
| C208 | IF A.4.1-5/1 AND A.4.4-1/2 AND A.4.3.8-1/20 AND [10] A.4.1-1/5 AND [10] A.4.4-1/117 THEN R ELSE N/A | UEs supporting 5G Core and IMS and handover from 5G Core to EPC over non-3GPP Access Network and GSMA PRD IR.51: "IMS Profile for Voice, Video and SMS over Wi-Fi" and WLAN. | |
| C209 | IF A.4.1-5/1 AND A.4.3.12-1/2 AND A.4.3.12-1/6 AND A.4.3.12-1/7 THEN R ELSE N/A | UEs supporting 5G Core and RedCap and relaxed RRM measurements in RRC\_CONNECTED and initiating UE Assistance Information procedure immediately upon change of its fulfilment status for RRM measurement relaxation criterion for connected mode. | |
| C210 | IF A.4.1-5/1 AND A.4.3.7-1/43 THEN R ELSE N/A | UEs supporting 5G Core and eDRX | |
| C210A | IF A.4.1-5/1 AND A.4.3.7-1/43 AND A.4.3.7-1/19 THEN R ELSE N/A | UEs supporting 5G Core and eDRX and RRC\_INACTIVE | |
| C211 | IF A.4.3.2-1/85 THEN R ELSE N/A | UEs supporting repetition of Message 3 PUSCH | |
| C212 | IF A.4.1-5/1 AND A.4.3.12-1/2 THEN R ELSE N/A | UEs supporting 5G Core and RedCap | |
| C212a | IF A.4.1-5/1 AND A.4.3.12-1/2 AND A.4.3.7-1/19 THEN R ELSE N/A | UEs supporting 5G Core and RedCap and RRC\_INACTIVE | |
| C213 | IF A.4.1-5/1 AND A.4.3.14-1/1 THEN R ELSE N/A | UE supporting 5G Core and broadcast reception | |
| C214 | IF A.4.1-5/1 AND A.4.3.14-1/2 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell | |
| C215 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.14-1/3 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for dynamic scheduling for multicast | |
| C216 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.14-1/3 AND A.4.3.14-1/4 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for dynamic scheduling for multicast and PTP retransmission for multicast on the same cell as multicast initial transmission | |
| C217 | IF A.4.1-5/1 AND A.4.3.2-2/3 THEN R ELSE N/A | UEs supporting 5G Core and NR standalone shared spectrum channel access | |
| C218 | IF A.4.1-5/1 AND A.4.3.2-2/3 AND A.4.3.2-2/19 THEN R ELSE N/A | UEs supporting 5G Core and NR standalone shared spectrum channel access and RSSI measurements and channel occupancy reporting | |
| C219 | IF A.4.1-5/1 AND A.4.3.13-1/1 THEN R ELSE N/A | UEs supporting 5G Core and Multi-SIM features | |
| C220 | IF A.4.1-5/1 AND A.4.3.13-1/4 THEN R ELSE N/A | UEs supporting 5G Core and Multi-SIM Reject paging request | |
| C221 | IF A.4.1-5/1 AND (A.4.1-4A/1 OR A.4.1-4A/3) AND A.4.3.7-1/19 AND A.4.3.5-1/15 AND A.4.1-4/6 THEN R ELSE N/A | UEs supporting 5G Core and intra-band contiguous CA and RRC\_INACTIVE and direct NR SCG SCell activation and NR-DC | |
| C222 | IF A.4.1-5/1 AND (A.4.1-4A/2 OR A.4.1-4A/4) AND A.4.3.7-1/19 AND A.4.3.5-1/15 AND A.4.1-4/6 THEN R ELSE N/A | UEs supporting 5G Core and intra-band non-contiguous CA and RRC\_INACTIVE and direct NR SCG SCell activation and NR-DC | |
| C223 | IF A.4.1-5/1 AND (A.4.1-4A/5 OR A.4.1-4A/6) AND A.4.3.7-1/19 AND A.4.3.5-1/15 AND A.4.1-4/6 THEN R ELSE N/A | UEs supporting 5G Core and inter-band CA and RRC\_INACTIVE and direct NR SCG SCell activation and NR-DC | |
| C224 | IF A.4.1-5/1 AND A.4.3.7-1/42 THEN R ELSE N/A | UEs supporting 5G Core and PEI | |
| C224A | IF A.4.1-5/1 AND A.4.3.7-1/42 AND A.4.3.7-1/61 THEN R ELSE N/A | UEs supporting 5G Core and PEI and PEIPS | |
| C225 | IF A.4.1-3/2 AND (A.4.3.6-1/61 OR A.4.3.6-1/62) THEN R ELSE N/A | UEs supporting EN-DC and Idle/Inactive Measurements | |
| C226 | IF A.4.1-5/1 AND A.4.3.5-1/13 AND (A.4.1-4A/1 OR A.4.1-4A/3) THEN R ELSE N/A | UEs supporting 5G Core and direct NR MCG SCell activation and intra-band contiguous CA | |
| C227 | IF A.4.1-5/1 AND A.4.3.5-1/13 AND (A.4.1-4A/2 OR A.4.1-4A/4) THEN R ELSE N/A | UEs supporting 5G Core and direct NR MCG SCell activation and intra-band non-contiguous CA | |
| C228 | IF A.4.1-5/1 AND A.4.3.5-1/13 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 direct NR MCG SCell activation and inter-band CA | |
| C229 | IF A.4.1-5/1 AND A.4.1-4/6 AND A.4.3.7-1/19 AND A.4.3.7-1/44 THEN R ELSE N/A | UEs supporting 5G Core and NR-DC and RRC\_INACTIVE and (re-)configuration of an SCG during the resume procedure. | |
| C230 | IF A.4.1-5/1 AND A.4.3.7-1/37 THEN R ELSE N/A | UEs supporting 5G Core and NSSRG | |
| C231 | IF A.4.1-5/1 AND A.4.3.7-1/24 AND A.4.3.7-1/40 THEN R ELSE N/A | UEs supporting 5G Core and SNPN and configuration of access identities in the list of subscriber data | |
| C232 | IF A.4.3.2-1/46 AND A.4.4-1/14 THEN R ELSE N/A | UEs Supporting 2-Step RACH and Random access SDT | |
| C233 | IF A.4.4-1/14 THEN R ELSE N/A | UEs Supporting Random access SDT | |
| C234 | IF [9] A.18/5 AND A.4.3.7-1/32 AND [9] A.15/1 AND [9] A.4/16 AND [9] A.21/1 AND [9] A.22/11 THEN R ELSE N/A | NR and IMS voice over NR and MTSI and MTSI speechand preconditions and NG.114 v1.0 and NG.114 v1.0 default configuration EVS/Br and NG.114 v1.0 default configuration EVS/Bw | |
| C235 | IF A.4.3.3-1/8 THEN R ELSE N/A | UEs supporting 5GS and uplink data compression operation | |
| C236 | IF A.4.3.3-1/8 and A.4.3.3-1/9 THEN R ELSE N/A | UEs supporting 5GS and uplink data compression operation and UL data compression with SIP static dictionary | |
| C237 | IF [10] A.4.4-1/117 AND [10] A.4.1-1/5 AND A.4.3.8-1/21 AND A.4.4-1/2 AND A.4.1-5/1 THEN R ELSE N/A | UEs supporting WLAN and GSMA PRD IR.51: "IMS Profile for Voice, Video and SMS over Wi-Fi" and handover from EPC over non-3GPP Access Network to 5G Core and IMS and 5G Core.. | |
| C238 | IF A.4.1-5/1 AND A.4.3.7-1/14 AND [11] A.20/90 THEN R ELSE N/A | UEs supporting 5G Core and emergency services in NR connected to 5GCN and test execution with No USIM | |
| C239 | IF A.4.1-5/1 AND A.4.3.7-1/42 AND A.4.3.7-1/19 THEN R ELSE N/A | UEs supporting 5G Core and RRC\_INACTIVE and PEI | |
| C240 | IF A.4.1-5/1 AND A.4.3.7-1/38 THEN R ELSE N/A | UEs supporting 5G Core and slice based cell reselection |
| C241 | IF A.4.1-5/1 AND A.4.3.7-1/19 AND A.4.3.7-1/38 THEN R ELSE N/A | UEs supporting 5G Core and RRC\_INACTIVE and slice based cell reselection |
| C242 | IF A.4.1-5/1 AND A.4.3.13-1/2 THEN R ELSE N/A | UEs supporting 5G Core and Multi-SIM N1 NAS signalling connection release |
| C243 | IF A.4.1-5/1 AND A.4.3.2-2/2 THEN R ELSE N/A | UEs supporting 5G Core and EN-DC with NR shared spectrum channel access |
| C244 | IF A.4.1-5/1 AND A.4.3.2-2/5 THEN R ELSE N/A | UEs supporting 5G Core and NR-DC with NR shared spectrum channel access |
| C245 | IF A.4.1-5/1 AND A.4.3.13-1/1 AND A.4.3.7-1/29 THEN R ELSE N/A | UEs supporting 5G Core and Multi-SIM features and release preference assistance information |
| C246 | IF A.4.1-5/1 AND A.4.3.13-1/6 THEN R ELSE N/A | UEs supporting 5G Core and MUSIM gap feature. |
| C247 | IF A.4.1-5/1 AND A.4.3.2-2/3 AND A.4.3.7-1/19 THEN R ELSE N/A | UEs supporting 5G Core and NR standalone shared spectrum channel access and RRC\_INACTIVE |
| C248 | IF A.4.1-5/1 AND A.4.3.8-1/24 AND [10] A.4.1-1/5 AND THEN R ELSE N/A | UEs supporting 5G Core and handover from 5G Core over non-3GPP Access Network to 5G Core Network and WLAN |
| C249 | IF A.4.1-5/1 AND A.4.3.8-1/23 AND [10] A.4.1-1/5 THEN R ELSE N/A | UEs supporting 5G Core and handover from 5G Core over non-3GPP Access Network to EPC Network and WLAN |
| C250 | IF A.4.1-5/1 AND A.4.4-1/21 THEN R ELSE N/A | UEs supporting 5G Core and storage and delivery of multiple CEF report upon request from the network |
| C251 | IF A.4.1-5/1 AND A.4.1-5/2 AND [10] A.4.1-1/5 AND A.4.3.7-1/9 and A.4.3.7-1/48 THEN R ELSE N/A | UEs supporting 5G Core and 5G core over non-3GPP Access Network and WLAN and additional UE-requested PDU establishment and ATSSS |
| C252 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.14-1/5 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and NACK-only based HARQ-ACK feedback for multicast with ACK/NACK transforming |
| C253 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.14-1/3 AND A.4.3.14-1/7 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for dynamic scheduling for multicast and multiplexing HARQ-ACK for unicast and for multicast with the same priority and different HARQ-ACK codebook types in a PUCCH or in a PUSCH |
| C254 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.7-1/19 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and RRC\_INACTIVE |
| C255 | IF A.4.1-3/3 AND A.4.3.7-1/19 AND A.4.3.7-1/44 THEN R ELSE N/A | UEs supporting NE-DC and RRC\_INACTIVE and (re-)configuration of an SCG during the resume procedure. |
| C256 | IF A.4.3.5-1/16 AND A.4.1-4/6 AND A.4.3.3-1/4 THEN R ELSE N/A | UEs supporting services with survival time and NR-DC and PDCP-duplication over split DRB |
| C257 | IF A.4.3.5-1/16 AND (A.4.1-4A/1 OR A.4.1-4A/3) AND A.4.3.3-1/3 THEN R ELSE N/A | UEs supporting services with survival time and intra-band contiguous CA and CA-based PDCP duplication over MCG or SCG DRB |
| C258 | IF A.4.3.5-1/16 AND (A.4.1-4A/2 OR A.4.1-4A/4) AND A.4.3.3-1/3 THEN R ELSE N/A | UEs supporting services with survival time and intra-band non-contiguous CA and CA-based PDCP duplication over MCG or SCG DRB |
| C259 | IF A.4.3.5-1/16 AND (A.4.1-4A/5 OR A.4.1-4A/6 OR A.4.1-4A/7) AND A.4.3.3-1/3 THEN R ELSE N/A | UEs supporting services with survival time and inter-band CA and CA-based PDCP duplication over MCG or SCG DRB |
| C260 | IF ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.3.7-1/37 THEN R ELSE N/A | UEs supporting 5GS and E-UTRA and NSSRG. |
| C261 | IF A.4.1-5/1 AND A.4.3.7-1/9 AND A.4.3.7-1/14 THEN R ELSE N/A | UEs supporting 5G Core and additional UE-requested PDU establishment and emergency services in NR connected to 5GCN |
| C262 | IF A.4.3.7-1/45 AND A.4.3.7-1/46 THEN R ELSE N/A | UEs supporting slice-based RACH partitioning and slice-based RACH prioritisation |
| C263 | IF A.4.3.7-1/45 AND A.4.3.7-1/46 AND A.4.3.7-1/47 THEN R ELSE N/A | UEs supporting slice-based RACH partitioning, slice-based RACH prioritisation and RACH prioritisation for Access Identity 1 |
| C264 | IF A.4.3.2-1/46 AND A.4.3.7-1/45 AND A.4.3.7-1/46 THEN R ELSE N/A | UEs supporting 2-Step RACH, slice-based RACH partitioning and slice-based RACH prioritisation |
| C265 | IF A.4.3.2-1/46 AND A.4.3.7-1/45 AND A.4.3.7-1/46 AND A.4.3.7-1/47 THEN R ELSE N/A | UEs supporting 2-Step RACH, slice-based RACH partitioning, slice-based RACH prioritisation and RACH prioritisation for Access Identity 1 |
| C266 | IF A.4.1-5/1 AND A.4.4-1/6 AND A.4.4-1/23 AND A.4.3.1-2/1b THEN R ELSE N/A | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE and IDC mechanism and FR1 Band n40 |
| C267 | IF A.4.1-5/1 AND A.4.4-1/6 AND A.4.4-1/22 THEN R ELSE N/A | UEs supporting 5G core and logged measurements in RRC\_IDLE and RRC\_INACTIVE and early measurements |
| C268 | IF A.4.1-3/3 AND A.4.3.6-1/75 THEN R ELSE N/A | UEs supporting NE-DC and SFTD measurement between NR PCell and E-UTRA PSCell |
| C269 | IF A.4.1-5/1 AND A.4.4-1/16 THEN R ELSE N/A | UEs supporting 5G Core and SDT via Configured Grant Type 1 in RRC\_INACTIVE state |
| C270 | IF A.4.1-5/1 AND A.4.4-1/15 AND A.4.4-1/16 THEN R ELSE N/A | UEs supporting 5G Core and SRB SDT and SDT via Configured Grant Type 1 in RRC\_INACTIVE state |
| C271 | IF A.4.3.3-1/8 and A.4.3.3-1/10 THEN R ELSE N/A | UEs supporting 5GS and uplink data compression operation and continuation of uplink data compression protocol operation |
| C272 | IF A.4.1-4/6 and A.4.3.3-1/8 THEN R ELSE N/A | UEs supporting NR-DC and uplink data compression operation |
| C273 | IF A.4.1-3/3 and A.4.3.3-1/8 THEN R ELSE N/A | UEs supporting NE-DC and uplink data compression operation |
| C274 | IF A.4.1-5/1 AND A.4.4-1/26 THEN R ELSE N/A | UEs supporting 5G Core and RRC Connection release with MPS priority indication |
| C274A | IF A.4.1-5/1 AND A.4.4-1/26 AND A.4.3.7-1/19 THEN R ELSE N/A | UEs supporting 5G Core and RRC Connection release with MPS priority indication AND RRC\_INACTIVE |
| C275 | IF A.4.1-5/1 AND A.4.1-5/2 AND [10] A.4.1-1/5 AND A.4.3.7-1/13 and A.4.3.7-1/48 THEN R ELSE N/A | UEs supporting 5G Core and 5G core over non-3GPP Access Network and WLAN and UE-requested PDU modification and ATSSS |
| C276 | IF A.4.1-5/1 AND A.4.3.8-1/25 AND [10] A.4.1-1/5 AND THEN R ELSE N/A | UEs supporting 5G Core and handover from 5G Core Network to 5G Core over non-3GPP Access Network and WLAN |
| C277 | IF A.4.1-5/1 AND A.4.3.8-1/22 AND [10] A.4.1-1/5 THEN R ELSE N/A | UEs supporting 5G Core and handover from EPC Network to 5G Core over non-3GPP Access Network and WLAN |
| C278 | IF A.4.1-5/1 AND A.4.4-1/24 THEN R ELSE N/A | UEs supporting 5G Core and delivery of delivery of 2-step RACH related information upon request from the network |
| C279 | IF A.4.1-5/1 AND A.4.4-1/25 THEN R ELSE N/A | UEs supporting 5G Core and delivery of delivery of 2-step RACH related information upon request from the network. |
| C280 | IF A.4.1-5/1 AND A.4.3.14-1/11 AND (A.4.1-4A/1 OR A.4.1-4A/3) THEN R ELSE N/A | UE supporting 5G Core and broadcast reception on SCell and Intra-band Contiguous CA |
| C281 | IF A.4.1-5/1 AND A.4.3.14-1/11 AND (A.4.1-4A/5 OR A.4.1-4A/6 OR A.4.1-4A/7) THEN R ELSE N/A | UE supporting 5G Core and broadcast reception on SCell and Inter-band CA |
| C282 | IF A.4.1-5/1 AND A.4.3.14-1/11 AND (A.4.1-4A/2 OR A.4.1-4A/4) THEN R ELSE N/A | UE supporting 5G Core and broadcast reception on SCell and Intra-band non Contiguous CA |
| C283 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.14-1/8 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and DCI formate 4\_2 |
| C284 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.14-1/8 AND A.4.3.14-1/9 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and DCI formate 4-2 and DCI-based enabling/disabling ACK/NACK based HARQ-ACK feedback configured per G-RNTI by RRC signalling via DCI format 4\_2 |
| C285 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.14-1/8 AND A.4.3.14-1/10 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and DCI formate 4-2 and DCI-based enabling/disabling NACK-only based HARQ-ACK feedback configured per G-RNTI by RRC signalling via DCI format 4\_2 |
| C286 | IF A.4.1-3/2 AND A.4.3.7-1/50 THEN R ELSE N/A | UEs supporting EN-DC and user plane integrity protection with EPS |
| C287 | IF A.4.3.2-1/114 THEN R ELSE N/A | UEs supporting dynamic indication of PUCCH repetition |
| C288 | IF A.4.3.2-1/115 AND A.4.3.2-1/113 THEN R ELSE N/A | UEs supporting increased maximum number of PUSCH Type A repetitions and dynamic indication of the number of repetitions for PUSCH |
| C289 | IF A.4.3.2-1/115 AND (A.4.3.2-1/111 OR A.4.3.2-1/112) THEN R ELSE N/A | UEs supporting increased maximum number of PUSCH Type A repetitions and PUSCH transmissions with configured grant |
| C290 | IF A.4.3.2-1/116 AND A.4.3.2-1/113 THEN R ELSE N/A | UEs supporting PUSCH repetitions based on available slots and dynamic indication of the number of repetitions for PUSCH |
| C291 | IF A.4.3.2-1/116 AND (A.4.3.2-1/111 OR A.4.3.2-1/112) THEN R ELSE N/A | UEs supporting PUSCH repetitions based on available slots and PUSCH transmissions with configured grant |
| C292 | IF A.4.3.2-1/117 THEN R ELSE N/A | UEs supporting TB processing over multi-slot PUSCH |
| C293 | IF A.4.3.2-1/118 THEN R ELSE N/A | UEs supporting repetition of TB processing over multi-slot PUSCH |
| C294 | IF A.4.1-5/1 AND A.4.3.13-1/1 AND A.4.3.13-1/6 AND A.4.3.13-1/7 THEN R ELSE N/A | UEs supporting 5G Core and Multi-SIM features and MUSIM related assistance information |
| C295 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.14-1/16 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and Multiple G-RNTIs. |
| C296 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.14-1/12 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and SPS group-common PDSCH for multicast on PCell. |
| C297 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.14-1/12 AND A.4.3.14-1/13 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and SPS group-common PDSCH for multicast on PCell and ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for SPS group-common PDSCH for multicast. |
| C298 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.14-1/12 AND A.4.3.14-1/13 AND A.4.3.14-1/14 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and SPS group-common PDSCH for multicast on PCell and ACK/NACK based HARQ-ACK feedback and RRC-based enabling/disabling ACK/NACK-based feedback for SPS group-common PDSCH for multicast and PTP retransmission associated with CS-RNTI for SPS multicast on the cell same as multicast initial transmission. |
| C299 | IF A.4.1-5/1 AND A.4.3.14-1/2 AND A.4.3.14-1/12 AND A.4.3.14-1/15 THEN R ELSE N/A | UE supporting 5G Core and dynamic scheduling for multicast for PCell and SPS group-common PDSCH for multicast on PCell and unicast PDCCH scrambled with CS-RNTI to release SPS group-common PDSCH. |
| C300 | IF A.4.1-5/1 AND A.4.3.2-2/1 AND A.4.3.2A.1-2/1 THEN R ELSE N/A | UEs supporting 5G Core and NR CA with NR shared spectrum channel access and UL NR CA with 2 carriers |
| C301 | IF A.4.1-5/1 AND A.4.4-1/27 THEN R ELSE N/A | UEs supporting 5G Core and RLF-Report for conditional handover |
| C302 | IF A.4.1-5/1 AND A.4.4-1/28 THEN R ELSE N/A | UEs supporting 5G Core and RLF-Report for DAPS handover. |
| C303 | IF A.4.1-5/1 AND A.4.4-1/29 THEN R ELSE N/A | UEs supporting 5G Core and the storage and delivery of Successful Handover Report. |
| C304 | IF A.4.1-5/1 AND A.4.3.7-1/52 THEN R ELSE N/A | UEs supporting 5G Core and access SNPN using credentials assigned by a Credentials Holder separate from the SNPN |
| C305 | IF A.4.1-5/1 AND A.4.3.7-1/53 THEN R ELSE N/A | UEs supporting 5G Core and onboarding services in SNPN(hence supports Default UE Credentials) |
| C306 | IF A.4.1-5/1 AND A.4.3.7-1/56 THEN R ELSE N/A | UEs supporting 5G Core and emergency services in SNPN |
| C307 | IF A.4.1-5/1 AND A.4.3.7-1/52 AND A.4.3.7-1/30 THEN R ELSE N/A | UEs supporting 5G Core and accessing SNPN using credentials from a Credentials Holder and user initiated SNPN reselection in automatic mode on NR. |
| C308 | IF A.4.1-5/1 AND A.4.3.7-1/56 AND A.4.3.7-1/57 AND A.4.3.7-1/32 THEN R ELSE N/A | UEs supporting 5G Core and PLMN access in SNPN Access mode and emergency services in NR connected to 5GCN in SNPN Access mode And IMS voice over NR |
| C309 | IF A.4.1-5/1 AND A.4.4-1/17 THEN R ELSE N/A | UEs supporting 5G Core and NR NTN access |
| C310 | IF A.4.1-5/1 AND A.4.3.7-1/51 THEN R ELSE N/A | UEs supporting 5G Core and UAS |
| C311 | IF A.4.3.2-1/123 THEN R ELSE N/A | UEs supporting 5GS and unified TCI state operation with joint DL/UL TCI update for intra-cell beam management |
| C312 | IF A.4.3.2-1/133 THEN R ELSE N/A | UEs supporting 5GS and unified separate TCI with multi-MAC-CE |
| C313 | IF A.4.1-5/1 AND A.4.3.7-1/59 THEN R ELSE N/A | UEs supporting 5G Core and MICO mode |
| C314 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.4-1/26 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and RRC Connection release with MPS priority indication |
| C315 | IF A.4.1-5/1 AND A.4.3.2-1/134 THEN R ELSE N/A | UEs supporting 5G Core and partial frequency sounding for SRS with frequency hopping. |
| C316 | 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 AND A.4.3.7-1/58 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and EPS IMS Voice (VoLTE in GSMA PRD IR.92: "IMS Profile for Voice and SMS") and EPS fallback and being configured for No E-UTRA Disabling In 5GS |
| C317 | IF A.4.1-5/1 AND A.4.4-1/16 AND A.4.3.7-1/6 THEN R ELSE N/A | UEs supporting 5G Core and SDT via Configured Grant Type 1 in RRC\_INACTIVE state and SMS over NAS |
| C318 | IF A.4.1-5/1 AND A.4.3.2-2/1 THEN R ELSE N/A | UEs supporting 5G Core and NR CA with NR shared spectrum channel access |
| C319 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.1-5/2 AND [10] A.4.1-1/5 AND A.4.3.7-1/13 AND A.4.3.7-1/60 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and 5G core over non-3GPP Access Network and WLAN and R17 ATSSS of establishing a PDN connection as the user plane resource of an MA PDU session in 5GS |
| C320 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.1-5/2 AND [10] A.4.1-1/5 AND A.4.3.7-1/13 AND A.4.3.7-1/48 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and 5G core over non-3GPP Access Network and WLAN and R16 ATSSS |
| C321 | IF A.4.1-5/1 AND A.4.4-1/17 AND A.4.3.2-1/138 THEN R ELSE N/A | UEs supporting 5G Core and NR NTN access and UE reporting of information related to TA pre-compensation |
| C322 | IF A.4.1-5/1 AND A.4.4-1/17 AND A.4.3.4-1/3 THEN R ELSE N/A | UEs supporting 5G Core and NR NTN access and RLC UM Mode |
| C323 | IF A.4.1-5/1 AND A.4.4-1/17 AND A.4.3.6-1/76 THEN R ELSE N/A | UE supporting 5G Core and NR NTN access and UE supporting location-based triggered measurement reporting (i.e., event D1) |
| C324 | IF A.4.1-5/1 AND ([10] A.4.1-1/1 OR [10] A.4.1-1/2) AND A.4.3.7-1/58 THEN R ELSE N/A | UEs supporting 5G Core and E-UTRA and No E-UTRA Disabling In 5GS |

## 4.3 Protocol conformance test cases applicability for Vertical UEs

### 4.3.1 SNPN-only UEs

Test cases applicable to SNPN-only UEs (A.4.1-5/3) are listed in Table 4.3.1-1. The Applicability - Condition of each individual test is as identified in subclause 4.1.

Table 4.3.1-1: Protocol conformance test cases applicable to SNPN-only UEs

| Clause | | **Comment** | |
| --- | --- | --- | --- |
|  | |  | |
| 6.1.2.1 | |  | |
| 6.1.2.2 | |  | |
| 6.1.2.3 | |  | |
| 6.1.2.4 | |  | |
| 6.1.2.5 | |  | |
| 6.1.2.7 | |  | |
| 6.1.2.11 | |  | |
| 6.1.2.16 | |  | |
| 6.1.2.17 | |  | |
| 6.1.2.18 | |  | |
| 6.1.2.19 | |  | |
| 6.1.2.20 | |  | |
| 6.1.2.21 | |  | |
| 6.1.2.22 | |  | |
| 6.1.2.23 | |  | |
| 6.4.2.1 | |  | |
| 6.4.2.2 | |  | |
| 6.5.1.1 | |  | |
| 6.5.1.2 | |  | |
| 6.5.1.3 | |  | |
| 6.5.3.1 | | applicable to SNPN-only UEs since Rel-17 | |
| 6.5.3.2 | | applicable to SNPN-only UEs since Rel-17 | |
| 6.5.3.3 | | applicable to SNPN-only UEs since Rel-17 | |
| 6.5.3.4 | | applicable to SNPN-only UEs since Rel-17 | |
| 6.5.3.5 | | applicable to SNPN-only UEs since Rel-17 | |
| 6.5.3.6 | | applicable to SNPN-only UEs since Rel-17 | |
| 6.5.3.7 | | applicable to SNPN-only UEs since Rel-17 | |
| 6.5.3.8 | | applicable to SNPN-only UEs since Rel-17 | |
| 7.1.1.1.1 | |  | |
| 7.1.1.1.1a | |  | |
| 7.1.1.1.2 | |  | |
| 7.1.1.1.3 | |  | |
| 7.1.1.1.4 | |  | |
| 7.1.1.1.5 | |  | |
| 7.1.1.1.6 | |  | |
| 7.1.1.2.1 | |  | |
| 7.1.1.2.2 | |  | |
| 7.1.1.2.3 | |  | |
| 7.1.1.2.4 | |  | |
| 7.1.1.3.1 | |  | |
| 7.1.1.3.2 | |  | |
| 7.1.1.3.2b | |  | |
| 7.1.1.3.3 | |  | |
| 7.1.1.3.4 | |  | |
| 7.1.1.3.5 | |  | |
| 7.1.1.3.6 | |  | |
| 7.1.1.3.7 | |  | |
| 7.1.1.3.8.1 | |  | |
| 7.1.1.3.8.2 | |  | |
| 7.1.1.3.8.3 | |  | |
| 7.1.1.3.9 | |  | |
| 7.1.1.4.1.1 | |  | |
| 7.1.1.4.1.3 | |  | |
| 7.1.1.4.1.4 | |  | |
| 7.1.1.4.2.1 | |  | |
| 7.1.1.4.2.3 | |  | |
| 7.1.1.4.2.4 | |  | |
| 7.1.1.4.2.5 | |  | |
| 7.1.1.5.1 | |  | |
| 7.1.1.5.2 | |  | |
| 7.1.1.5.3 | |  | |
| 7.1.1.5.4 | |  | |
| 7.1.1.5.5 | |  | |
| 7.1.1.6.1 | |  | |
| 7.1.1.6.2 | |  | |
| 7.1.1.6.3 | |  | |
| 7.1.1.7.1.1 | |  | |
| 7.1.1.7.1.2 | |  | |
| 7.1.1.7.1.3 | |  | |
| 7.1.1.8.1 | |  | |
| 7.1.1.9.1 | |  | |
| 7.1.1.10.1 | |  | |
| 7.1.1.11.1 | |  | |
| 7.1.2.2.1 | |  | |
| 7.1.2.2.2 | |  | |
| 7.1.2.2.3 | |  | |
| 7.1.2.2.4 | |  | |
| 7.1.2.2.5 | |  | |
| 7.1.2.2.6 | |  | |
| 7.1.2.3.1 | |  | |
| 7.1.2.3.2 | |  | |
| 7.1.2.3.3 | |  | |
| 7.1.2.3.4 | |  | |
| 7.1.2.3.5 | |  | |
| 7.1.2.3.5a | |  | |
| 7.1.2.3.6 | |  | |
| 7.1.2.3.7 | |  | |
| 7.1.2.3.8 | |  | |
| 7.1.2.3.9 | |  | |
| 7.1.2.3.10 | |  | |
| 7.1.2.3.11 | |  | |
| 7.1.3.1.1 | |  | |
| 7.1.3.1.2 | |  | |
| 7.1.3.2.1 | |  | |
| 7.1.3.2.2 | |  | |
| 7.1.3.2.3 | |  | |
| 7.1.3.3.1 | |  | |
| 7.1.3.3.2 | |  | |
| 7.1.3.3.3 | |  | |
| 7.1.3.4.1 | |  | |
| 7.1.3.4.2 | |  | |
| 7.1.3.5.1 | |  | |
| 7.1.3.5.2 | |  | |
| 7.1.3.5.3 | |  | |
| 7.1.3.5.4 | |  | |
| 7.1.3.5.5 | |  | |
| 7.1.4.1 | |  | |
| 7.1.4.2 | |  | |
| 8.1.1.1.1 | |  | |
| 8.1.1.2.1 | |  | |
| 8.1.1.2.3 | |  | |
| 8.1.1.3.1 | |  | |
| 8.1.1.3.3 | |  | |
| 8.1.1.3.7 | |  | |
| 8.1.1.4.1 | |  | |
| 8.1.1.4.2 | |  | |
| 8.1.2.1.1 | |  | |
| 8.1.2.1.2 | |  | |
| 8.1.2.1.4 | |  | |
| 8.1.2.1.5.1 | |  | |
| 8.1.2.1.5.2 | |  | |
| 8.1.2.1.5.3 | |  | |
| 8.1.3.1.1 | |  | |
| 8.1.3.1.2 | |  | |
| 8.1.3.1.3 | |  | |
| 8.1.3.1.4 | |  | |
| 8.1.3.1.5 | |  | |
| 8.1.3.1.6 | |  | |
| 8.1.3.1.7 | |  | |
| 8.1.3.1.8 | |  | |
| 8.1.3.1.9 | |  | |
| 8.1.3.1.10 | |  | |
| 8.1.3.1.11 | |  | |
| 8.1.3.1.12 | |  | |
| 8.1.3.1.13 | |  | |
| 8.1.3.1.14A | |  | |
| 8.1.3.1.15A | |  | |
| 8.1.3.1.16 | |  | |
| 8.1.3.1.17.1 | |  | |
| 8.1.3.1.17.2 | |  | |
| 8.1.3.1.17.3 | |  | |
| 8.1.3.1.18.1 | |  | |
| 8.1.3.1.18.2 | |  | |
| 8.1.3.1.18.3 | |  | |
| 8.1.3.1.19 | |  | |
| 8.1.3.1.20 | |  | |
| 8.1.3.1.21 | |  | |
| 8.1.3.1.23 | |  | |
| 8.1.4.1.2 | |  | |
| 8.1.4.1.5 | |  | |
| 8.1.4.1.6 | |  | |
| 8.1.4.1.7.1 | |  | |
| 8.1.4.1.7.2 | |  | |
| 8.1.4.1.7.3 | |  | |
| 8.1.4.1.8.1 | |  | |
| 8.1.4.1.8.2 | |  | |
| 8.1.4.1.8.3 | |  | |
| 8.1.4.1.9.1 | |  | |
| 8.1.4.1.9.2 | |  | |
| 8.1.4.1.9.3 | |  | |
| 8.1.5.1.1 | |  | |
| 8.1.5.2.2 | |  | |
| 8.1.5.4.1 | |  | |
| 8.1.5.6.1 | |  | |
| 8.1.5.6.3 | |  | |
| 8.1.5.6.5.1 | |  | |
| 8.1.5.6.5.2 | |  | |
| 8.1.5.6.5.3 | |  | |
| 8.1.5.7.1.1 | |  | |
| 8.1.5.7.1.2 | |  | |
| 8.1.5.7.1.3 | |  | |
| 8.1.5.8.1 | |  | |
| 8.1.5.8.2.1 | |  | |
| 8.1.5.8.2.2 | |  | |
| 8.1.5.8.2.3 | |  | |
| 8.1.7.2.1 | | applicable to SNPN-only UEs since Rel-17 | |
| 8.2.2.1.2 | |  | |
| 8.2.2.2.2 | |  | |
| 8.2.2.3.2 | |  | |
| 8.2.2.4.2 | |  | |
| 8.2.2.5.2 | |  | |
| 8.2.2.7.2 | |  | |
| 8.2.2.8.2 | |  | |
| 8.2.2.9.2 | |  | |
| 8.2.3.11.3 | |  | |
| 8.2.3.14.2 | |  | |
| 8.2.3.16.2 | |  | |
| 8.2.3.17.2 | |  | |
| 8.2.5.1.2 | |  | |
| 8.2.5.2.2 | |  | |
| 8.2.5.3.2 | |  | |
| 8.2.5.4.2 | |  | |
| 8.2.6.1.2.1 | |  | |
| 8.2.6.1.2.2 | |  | |
| 8.2.6.1.2.3 | |  | |
| 8.2.6.2.2 | |  | |
| 9.1.1.1 | |  | |
| 9.1.1.2 | |  | |
| 9.1.1.3 | |  | |
| 9.1.1.4 | |  | |
| 9.1.1.5 | |  | |
| 9.1.1.6 | |  | |
| 9.1.2.1 | |  | |
| 9.1.2.2 | |  | |
| 9.1.2.3 | |  | |
| 9.1.2.4 | |  | |
| 9.1.2.5 | |  | |
| 9.1.2.6 | |  | |
| 9.1.2.7 | |  | |
| 9.1.2.8 | |  | |
| 9.1.3.1 | |  | |
| 9.1.4.1 | |  | |
| 9.1.5.1.3 | |  | |
| 9.1.5.1.3a | |  | |
| 9.1.5.1.4 | |  | |
| 9.1.5.1.5 | |  | |
| 9.1.5.1.9 | |  | |
| 9.1.5.1.11 | |  | |
| 9.1.5.1.12 | |  | |
| 9.1.5.1.13 | |  | |
| 9.1.5.2.1 | |  | |
| 9.1.5.2.2 | |  | |
| 9.1.5.2.4 | |  | |
| 9.1.5.2.7 | |  | |
| 9.1.5.2.8 | |  | |
| 9.1.6.1.1 | |  | |
| 9.1.6.1.2 | |  | |
| 9.1.6.1.3 | |  | |
| 9.1.6.2.1 | |  | |
| 9.1.6.2.2 | |  | |
| 9.1.7.1 | |  | |
| 9.1.7.2 | |  | |
| 9.1.8.1 | |  | |
| 9.1.8.2 | |  | |
| 9.1.11.1 | |  | |
| 9.1.11.2 | |  | |
| 9.1.11.3 | |  | |
| 10.1.1.1 | |  | |
| 10.1.1.2 | |  | |
| 10.1.2.1 | |  | |
| 10.1.2.2 | |  | |
| 10.1.3.2 | |  | |
| 10.1.4.1 | |  | |
| 10.1.5.1 | |  | |
| 10.1.6.1 | |  | |
| 10.1.6.2 | |  | |
| 11.3.1a | |  | |
| 11.3.3 | |  | |
| 11.3.4 | |  | |
| 11.3.6a | |  | |
| 11.3.8 | |  | |
| 11.3.9a | |  | |
| 11.4.15 | | applicable to SNPN-only UEs since Rel-17 | |
| Note: all the above test cases are applicable for Rel-16 SNPN-only UEs unless other specified in comment column. | | | |

Annex A (informative):  
Change history

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Change history** | | | | | | | |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **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 | - | - | - | 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 | RAN5#79 | 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 | RAN#83 | R5-192857 | 0042 | 3 | F | Update of 5G-NR test cases applicability | 15.3.0 |
| 2019-06 | RAN#84 | R5-194891 | 0054 | 1 | F | Introduction of Non 3GPP Access over WLAN test case applicabilities | 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 | R5-195372 | 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 | - | 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 |
| 2020-03 | RAN#87 | R5-200235 | 0077 |  | F | Adding and modifying test applicability IMS Emergency Services | 16.3.0 |
| 2020-03 | RAN#87 | R5-201147 | 0076 | 1 | F | Correction to NR TC applicability-Split SRB | 16.3.0 |
| 2020-03 | RAN#87 | R5-201233 | 0080 | 3 | F | Update of 5G-NR test cases applicability | 16.3.0 |
| 2020-06 | RAN#88 | R5-201381 | 0081 | - | F | Addition of applicability for NR Idle TCs | 16.4.0 |
| 2020-06 | RAN#88 | R5-202141 | 0086 | - | F | Addition of new test applicability for DRX TC 7.1.1.5.5 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202673 | 0082 | 1 | F | Addition of applicability for NR RRC TCs | 16.4.0 |
| 2020-06 | RAN#88 | R5-202674 | 0083 | 1 | F | Addition of applicability for NR Multi Layer TCs | 16.4.0 |
| 2020-06 | RAN#88 | R5-202675 | 0084 | 1 | F | Update of 5G-NR test cases applicability | 16.4.0 |
| 2020-06 | RAN#88 | R5-203120 | 0085 | 2 | F | Introduction of applicability for new 5G IMS emergency test cases and corrections | 16.4.0 |
| 2020-09 | RAN#89 | R5-203542 | 0092 | - | F | Splitting and updates to applicability of NR RLC test case 7.1.2.3.5 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204469 | 0088 | 1 | F | Addition of applicability for NR TCs | 16.5.0 |
| 2020-09 | RAN#89 | R5-204470 | 0089 | 1 | F | Correction to applicability of NR TCs | 16.5.0 |
| 2020-09 | RAN#89 | R5-204471 | 0090 | 1 | F | Update of 5G-NR test cases applicability | 16.5.0 |
| 2020-09 | RAN#89 | R5-204472 | 0094 | 1 | F | Addition of new RRC TC for checking extended / spare field handling in SI | 16.5.0 |
| 2020-09 | RAN#89 | R5-204473 | 0095 | 1 | F | Removal of void test case and correction of condition for Inter-band measurements test cases | 16.5.0 |
| 2020-09 | RAN#89 | R5-204519 | 0091 | 1 | F | Addition of test applicabilities of test cases for voice fallback indication | 16.5.0 |
| 2020-09 | RAN#89 | R5-204520 | 0093 | 1 | F | Update applicability of Inter-RAT handover from NR to EN-DC test case | 16.5.0 |
| 2020-12 | RAN#90 | R5-205287 | 0099 | - | F | Addition of test applicabilities of test cases for UE power saving in NR | 16.6.0 |
| 2020-12 | RAN#90 | R5-205389 | 0101 | - | F | Correction to NR TC applicability | 16.6.0 |
| 2020-12 | RAN#90 | R5-206367 | 0098 | 1 | F | Update of 5G-NR test cases applicability | 16.6.0 |
| 2020-12 | RAN#90 | R5-206368 | 0103 | 1 | F | Addition of applicability for NR TCs | 16.6.0 |
| 2020-12 | RAN#90 | R5-206399 | 0104 | 1 | F | Applicability statement for new test case for PDCP Duplication for Rel-16 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206400 | 0108 | 1 | F | Applicability for ethernet header compression and decompression for NR | 16.6.0 |
| 2020-12 | RAN#90 | R5-206406 | 0106 | 1 | F | Add applicability for NR MobEnc TCs | 16.6.0 |
| 2020-12 | RAN#90 | R5-206413 | 0105 | 1 | F | Add applicability for NR V2X TCs | 16.6.0 |
| 2020-12 | RAN#90 | R5-206416 | 0107 | 1 | F | Addition of applicability for eMIMO Test Cases | 16.6.0 |
| 2020-12 | RAN#90 | R5-206432 | 0100 | 1 | F | Update applicability of Inter-RAT handover from NR to EN-DC test case 8.1.4.2.1.2 | 16.6.0 |
| 2021-03 | RAN#91 | R5-210161 | 0111 | - | F | Aligning content of 38.523-2 with 38.523-1 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210513 | 0120 | - | F | Addition of applicability for new NAS Test case 9.1.9.2 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210801 | 0128 | - | F | Adding applicability for new MDT test cases | 16.7.0 |
| 2021-03 | RAN#91 | R5-210998 | 0129 | - | F | Correction to applicability conditions of test cases 8.1.4.2.1.2 and 11.1.9 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211327 | 0130 | - | F | Remove applicability of 5GS Non-3GPP Access Test Case 9.2.5.2.1 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211412 | 0109 | 1 | F | Update release applicability of RRC TC 8.1.1.2.4 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211413 | 0112 | 1 | F | Adding missing applicability for TC 6.1.2.7 and 8.1.5.2.2 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211414 | 0113 | 1 | F | Adding applicability for new IMS emergency TC 11.4.11 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211415 | 0115 | 1 | F | Update of 5G-NR test cases applicability | 16.7.0 |
| 2021-03 | RAN#91 | R5-211416 | 0123 | 1 | F | Correction to NR TC applicability for 5GS | 16.7.0 |
| 2021-03 | RAN#91 | R5-211455 | 0124 | 1 | F | Correction to NR TC applicability for IIoT | 16.7.0 |
| 2021-03 | RAN#91 | R5-211461 | 0127 | 1 | F | Correction to applicability for NR MobEnc | 16.7.0 |
| 2021-03 | RAN#91 | R5-211464 | 0117 | 1 | F | Addition of test applicabilities for UE power saving in NR | 16.7.0 |
| 2021-03 | RAN#91 | R5-211487 | 0110 | 1 | F | Applicability statement for new test cases for NR Immediate MDT | 16.7.0 |
| 2021-03 | RAN#91 | R5-211488 | 0116 | 1 | F | Adding applicability for new logged MDT test cases | 16.7.0 |
| 2021-03 | RAN#91 | R5-211489 | 0125 | 1 | F | Correction to NR TC applicability for MDT | 16.7.0 |
| 2021-03 | RAN#91 | R5-211496 | 0121 | 1 | F | Introduction of applicability for SRVCC from NG-RAN to 3GPP UTRAN | 16.7.0 |
| 2021-03 | RAN#91 | R5-211504 | 0118 | 1 | F | Update to applicabilities for the EPS fallback test cases | 16.7.0 |
| 2021-06 | RAN#92 | R5-212040 | 0131 | - | F | Applicability statement for new test cases for Connection Establishment Failure in NR MDT | 16.8.0 |
| 2021-06 | RAN#92 | R5-212041 | 0132 | - | F | Applicability statement for new test cases for Inter-System Immediate MDT | 16.8.0 |
| 2021-06 | RAN#92 | R5-212380 | 0137 | - | F | Correcting applicability condition for C36 used in TS 38.523 TC 6.1.1.5 | 16.8.0 |
| 2021-06 | RAN#92 | R5-212386 | 0138 | - | F | Update to applicability of TC 11.4.10 and 11.4.11 | 16.8.0 |
| 2021-06 | RAN#92 | R5-212438 | 0139 | - | F | Correction to applicability for Multi-Layer TCs | 16.8.0 |
| 2021-06 | RAN#92 | R5-212539 | 0143 | - | F | Remove cross slot scheduling test case applicability | 16.8.0 |
| 2021-06 | RAN#92 | R5-212549 | 0144 | - | F | Addition of applicability for new 5G SRVCC test case | 16.8.0 |
| 2021-06 | RAN#92 | R5-212808 | 0147 | - | F | Addition of applicability for NPN test cases | 16.8.0 |
| 2021-06 | RAN#92 | R5-213375 | 0153 | - | F | Adding applicability for new 2-Step RACH test cases | 16.8.0 |
| 2021-06 | RAN#92 | R5-213385 | 0154 | - | F | Correction of test applicability for TC 9.1.5.1.15 | 16.8.0 |
| 2021-06 | RAN#92 | R5-213513 | 0134 | 1 | F | Update of 5G-NR test cases applicability | 16.8.0 |
| 2021-06 | RAN#92 | R5-213514 | 0149 | 1 | F | Update of test case titles of 5GC in applicability table | 16.8.0 |
| 2021-06 | RAN#92 | R5-213515 | 0151 | 1 | F | Addition of applicability for NR5G RRC TC 8.1.1.3.7 | 16.8.0 |
| 2021-06 | RAN#92 | R5-213556 | 0140 | 1 | F | Correction to applicability for NR MobEnc | 16.8.0 |
| 2021-06 | RAN#92 | R5-213572 | 0155 | 1 | F | Applicability of NR V2X test cases 12.1.7.1 and 12.1.7.2 | 16.8.0 |
| 2021-06 | RAN#92 | R5-213586 | 0146 | 1 | F | Addition of applicability for RACS test cases | 16.8.0 |
| 2021-06 | RAN#92 | R5-213634 | 0133 | 1 | F | Addition of applicability for new MDT TC 8.1.6.1.3.x | 16.8.0 |
| 2021-06 | RAN#92 | R5-213635 | 0142 | 1 | F | Applicability for NR MDT inter-system TCs | 16.8.0 |
| 2021-06 | RAN#92 | R5-213636 | 0150 | 1 | F | Correction to NR MDT Applicability-C126 | 16.8.0 |
| 2021-06 | RAN#92 | R5-213672 | 0152 | 1 | F | Adding applicability for new NR URLLC test cases | 16.8.0 |
| 2021-09 | RAN#93 | R5-214209 | 0156 | - | F | Applicability statement for new test case for Multi configured uplink grants in NR IIoT | 16.9.0 |
| 2021-09 | RAN#93 | R5-214214 | 0157 | - | F | Applicability statement for new test cases for Inter-RAT MDT | 16.9.0 |
| 2021-09 | RAN#93 | R5-214758 | 0165 | - | F | Addition of applicability NR5G Power saving TC 8.1.5.10.1 | 16.9.0 |
| 2021-09 | RAN#93 | R5-214831 | 0168 | - | F | Correction to NR MDT Applicability | 16.9.0 |
| 2021-09 | RAN#93 | R5-214873 | 0169 | - | F | Addition of applicability for new NR 2-step RACH test cases | 16.9.0 |
| 2021-09 | RAN#93 | R5-214931 | 0170 | - | F | Adding applicability for new NR URLLC test cases | 16.9.0 |
| 2021-09 | RAN#93 | R5-215160 | 0171 | - | F | Correction to applicability for MDT Test cases | 16.9.0 |
| 2021-09 | RAN#93 | R5-215242 | 0172 | - | F | Addition of applicability for eNS test case 9.1.10.1 and 9.1.10.6 | 16.9.0 |
| 2021-09 | RAN#93 | R5-216204 | 0158 | 1 | F | Update of 5G-NR test cases applicability | 16.9.0 |
| 2021-09 | RAN#93 | R5-216205 | 0166 | 1 | F | Addition of Applicability for SFTD TCs | 16.9.0 |
| 2021-09 | RAN#93 | R5-216262 | 0167 | 1 | F | Correction to applicability for NR MobEnh | 16.9.0 |
| 2021-09 | RAN#93 | R5-216274 | 0164 | 1 | F | Addition of applicability for NPN test cases | 16.9.0 |
| 2021-09 | RAN#93 | R5-216315 | 0160 | 1 | F | Update of applicability statement and conditions for the test cases in NR MDT | 16.9.0 |
| 2021-09 | RAN#93 | R5-216333 | 0161 | 1 | F | Add applicabilities for test cases 8.1.1.4.4, 8.1.1.4.5 and 8.1.1.4.6 | 16.9.0 |
| 2021-09 | RAN#93 | R5-216334 | 0162 | 1 | F | Add applicabilities for test cases 8.1.1.4.7, 8.1.1.4.8 and 8.1.1.4.9 | 16.9.0 |
| 2021-12 | RAN#94 | R5-216614 | 0176 | - | F | Applicability statement for new test case for RACH logging and reporting | 16.10.0 |
| 2021-12 | RAN#94 | R5-216999 | 0182 | - | F | Addition of applicability for NR-DC TCs | 16.10.0 |
| 2021-12 | RAN#94 | R5-217018 | 0183 | - | F | Correction to applicability for NR MobEnh | 16.10.0 |
| 2021-12 | RAN#94 | R5-217082 | 0185 | - | F | Update of title for TC 9.1.5.1.15 | 16.10.0 |
| 2021-12 | RAN#94 | R5-217083 | 0186 | - | F | Update of applicability for TC 8.1.5.7.1.x, 8.2.6.1.1.x and 8.2.6.1.2.x | 16.10.0 |
| 2021-12 | RAN#94 | R5-217459 | 0190 | - | F | Addition of applicability for new Enhanced Network Slicing test cases | 16.10.0 |
| 2021-12 | RAN#94 | R5-217774 | 0174 | 1 | F | Add applicability for NR MobEnc Inter-frequency DAPS handover TC | 16.10.0 |
| 2021-12 | RAN#94 | R5-217826 | 0175 | 1 | F | Update of 5G-NR test cases applicability | 16.10.0 |
| 2021-12 | RAN#94 | R5-217827 | 0178 | 1 | F | Applicability statement for new test cases for NE-DC RRC | 16.10.0 |
| 2021-12 | RAN#94 | R5-217828 | 0187 | 1 | F | Addition of applicability for NR5G RRC TC 8.1.1.3.7b | 16.10.0 |
| 2021-12 | RAN#94 | R5-217829 | 0189 | 1 | F | Addition of applicability for new Data Off test cases | 16.10.0 |
| 2021-12 | RAN#94 | R5-217895 | 0184 | 1 | F | Addition of NR V2X TC applicability | 16.10.0 |
| 2021-12 | RAN#94 | R5-217900 | 0188 | 1 | F | Addition of Applicability for NPN TCs | 16.10.0 |
| 2021-12 | RAN#94 | R5-217932 | 0177 | 1 | F | Update of TC Title of NR SON/MDT for matching TC content in TC 8.1.6.2.4 | 16.10.0 |
| 2021-12 | RAN#94 | R5-217947 | 0192 | 1 | F | Addition of applicability for NR EIEI test cases | 16.10.0 |
| 2021-12 | RAN#94 | R5-217953 | 0193 | 1 | F | Applicability clauses for the Idle/Inactive measurement testcases for RRC\_IDLE state | 16.10.0 |
| 2021-12 | RAN#94 | R5-218009 | 0191 | 1 | F | Addition of test applicability for new eNS test cases | 16.10.0 |
| 2022-03 | RAN#95 | R5-220057 | 0195 | - | F | Addition of applicability for Rel-16 NR Mobility Enhancement test case | 16.11.0 |
| 2022-03 | RAN#95 | R5-220242 | 0198 | - | F | Updating applicability statements of Data Off test cases | 16.11.0 |
| 2022-03 | RAN#95 | R5-220267 | 0200 | - | F | Add applicability for test case 11.1.1a | 16.11.0 |
| 2022-03 | RAN#95 | R5-220607 | 0204 | - | F | Correction to applicability for NR MobEnh | 16.11.0 |
| 2022-03 | RAN#95 | R5-221040 | 0207 | - | F | Applicability updates for NR EIEI test cases | 16.11.0 |
| 2022-03 | RAN#95 | R5-221045 | 0208 | - | F | Updates to titles of Inter-System MDT sensor test cases | 16.11.0 |
| 2022-03 | RAN#95 | R5-221241 | 0214 | - | F | Addition of applicability for new test case 11.6.3 | 16.11.0 |
| 2022-03 | RAN#95 | R5-221462 | 0199 | 1 | F | Update of 5G-NR test cases applicability | 16.11.0 |
| 2022-03 | RAN#95 | R5-221463 | 0202 | 1 | F | Addition of applicability for emergency call establishment over EPS with disabling N1 mode | 16.11.0 |
| 2022-03 | RAN#95 | R5-221464 | 0205 | 1 | F | Correction the condition of 38.523-1 TC11.3.2 and TC11.3.8 and Test case Selection Expression of C61 | 16.11.0 |
| 2022-03 | RAN#95 | R5-221465 | 0206 | 1 | F | Correct of conditions for Uplink Data Transfer and Unified Access Control | 16.11.0 |
| 2022-03 | RAN#95 | R5-221466 | 0215 | 1 | F | Updates to emergency applicabilities and conditions | 16.11.0 |
| 2022-03 | RAN#95 | R5-221527 | 0203 | 1 | F | Addition of NR V2X TC applicability | 16.11.0 |
| 2022-03 | RAN#95 | R5-221528 | 0212 | 1 | F | Addition of applicability for new V2X test cases | 16.11.0 |
| 2022-03 | RAN#95 | R5-221535 | 0211 | 1 | F | Addition of applicability for new SNPN test cases | 16.11.0 |
| 2022-03 | RAN#95 | R5-221541 | 0213 | 1 | F | Applicability updates for NR RACS test cases | 16.11.0 |
| 2022-03 | RAN#95 | R5-221590 | 0209 | 1 | F | Addition of new NR URLLC MAC Test Case applicabilities | 16.11.0 |
| 2022-03 | RAN#95 | R5-222002 | 0216 | 1 | F | Applicability clauses for Idle Inactive measurement test cases | 16.11.0 |
| 2022-03 | RAN#95 | R5-222034 | 0194 | 1 | F | Applicability statement for new test cases for PDCP Duplication 3 RLC entities in NR IIoT | 16.11.0 |
| 2022-03 | RAN#95 | R5-222038 | 0196 | 1 | F | Applicability statement for new test cases for NE-DC RRC | 16.11.0 |
| 2022-06 | RAN#96 | R5-222859 | 0221 | - | F | Add applicability for test case 11.1.3a | 16.12.0 |
| 2022-06 | RAN#96 | R5-223255 | 0227 | - | F | Applicability updates to NR EIEI test cases | 16.12.0 |
| 2022-06 | RAN#96 | R5-223348 | 0219 | 1 | F | Update of applicability statement for test cases for NE-DC RRC | 16.12.0 |
| 2022-06 | RAN#96 | R5-223377 | 0223 | 1 | F | Addition of applicability of new NR V2X test cases | 16.12.0 |
| 2022-06 | RAN#96 | R5-223383 | 0224 | 1 | F | Addition of Applicability of new SNPN test case | 16.12.0 |
| 2022-06 | RAN#96 | R5-223409 | 0228 | 1 | F | Modification of idle/inactive testcase applicabilities | 16.12.0 |
| 2022-06 | RAN#96 | R5-223442 | 0217 | 1 | F | Update of 5G-NR test cases applicability | 16.12.0 |
| 2022-09 | RAN#97 | R5-223998 | 0230 | - | F | Addition of Release other RAT for Inter-RAT MDT test cases | 16.13.0 |
| 2022-09 | RAN#97 | R5-224000 | 0232 | - | F | Update of applicability for EN-DC UL CA cases 8.2.6.1.1.x | 16.13.0 |
| 2022-09 | RAN#97 | R5-224002 | 0234 | - | F | Update of applicability for CA test case 8.1.5.7.1.2 | 16.13.0 |
| 2022-09 | RAN#97 | R5-224032 | 0235 | - | F | Editorial update to 5GC and UAC test case titles in 38.523-2 | 16.13.0 |
| 2022-09 | RAN#97 | R5-224097 | 0238 | - | F | Applicability of new NR-DC and NE-DC test cases | 16.13.0 |
| 2022-09 | RAN#97 | R5-224341 | 0241 | - | F | Editorial Correction - Add VOID to CAG TC 6.5.2.5 | 16.13.0 |
| 2022-09 | RAN#97 | R5-224356 | 0242 | - | F | Corrections to Applicability of NR TC 8.1.4.4.4 | 16.13.0 |
| 2022-09 | RAN#97 | R5-224439 | 0246 | - | F | Applicability updates to NR EIEI test cases | 16.13.0 |
| 2022-09 | RAN#97 | R5-224479 | 0248 | - | F | Addition of Applicability for NPN test cases | 16.13.0 |
| 2022-09 | RAN#97 | R5-225261 | 0262 | - | F | Addition of applicability for new testcase 11.3.10 | 16.13.0 |
| 2022-09 | RAN#97 | R5-225296 | 0249 | 1 | F | Addition of applicability for NR SL SIG TCs | 16.13.0 |
| 2022-09 | RAN#97 | R5-225298 | 0243 | 1 | F | Correction of test applicability for TC 7.1.1.12.4.x | 16.13.0 |
| 2022-09 | RAN#97 | R5-225309 | 0240 | 1 | F | Addition of legacy test cases applicable to SNPN Only UE | 16.13.0 |
| 2022-09 | RAN#97 | R5-225322 | 0257 | 1 | F | Addition of Applicability of new NR-NR Dual Connectivity test case | 16.13.0 |
| 2022-09 | RAN#97 | R5-225413 | 0233 | 1 | F | Update of applicability for CA test case 7.1.1.3.8.x | 16.13.0 |
| 2022-09 | RAN#97 | R5-225414 | 0236 | 1 | F | Update of 5G-NR test cases applicability | 16.13.0 |
| 2022-09 | RAN#97 | R5-225415 | 0252 | 1 | F | Addition of applicability of NE-DC RRC test cases | 16.13.0 |
| 2022-09 | RAN#97 | R5-225417 | 0261 | 1 | F | Addition of new test case for RRC DL segmentation | 16.13.0 |
| 2022-09 | RAN#97 | R5-225452 | 0259 | 3 | F | Add applicability for Rel-15 Inter-system mobility between untrusted Non-3GPP and 3GPP system | 16.13.0 |
| 2022-09 | RAN#97 | R5-224590 | 0251 | - | F | Addition of applicability of new eNS Ph2 test cases | 17.0.0 |
| 2022-09 | RAN#97 | R5-225174 | 0260 | - | F | Applicabilities for new RedCap test cases | 17.0.0 |
| 2022-09 | RAN#97 | R5-225332 | 0239 | 1 | F | Add applicability for Msg3 repetition protocol test case | 17.0.0 |
| 2022-09 | RAN#97 | R5-225341 | 0258 | 1 | F | Addition of applicability of new eNS Test Case for NSAC Initial registration rejected | 17.0.0 |
| 2022-09 | RAN#97 | R5-225350 | 0254 | 1 | F | RedCap UE Test applicability for new test cases | 17.0.0 |
| 2022-12 | RAN#98 | R5-226025 | 0265 | - | F | Update the specific PICS for TC 7.1.1.7.1.3 | 17.1.0 |
| 2022-12 | RAN#98 | R5-226026 | 0266 | - | F | Correction of applicability of UAC TC 11.3.1a | 17.1.0 |
| 2022-12 | RAN#98 | R5-226050 | 0267 | - | F | Updates to applicability of NR RRC TC 8.1.1.2.4 | 17.1.0 |
| 2022-12 | RAN#98 | R5-226272 | 0268 | - | F | Inclusive Language Review of TS 38.523-2 | 17.1.0 |
| 2022-12 | RAN#98 | R5-226476 | 0273 | - | F | Add applicability for Rel-15 Inter-system mobility between untrusted Non-3GPP and 3GPP system | 17.1.0 |
| 2022-12 | RAN#98 | R5-227021 | 0284 | - | F | Addition of applicability of new eNS Test Cases | 17.1.0 |
| 2022-12 | RAN#98 | R5-227153 | 0287 | - | F | Addition of test applicability for MBS TC | 17.1.0 |
| 2022-12 | RAN#98 | R5-227219 | 0289 | - | F | Addition of applicability clauses for IMS emergency test cases 11.4.13 and 11.4.14 | 17.1.0 |
| 2022-12 | RAN#98 | R5-227220 | 0290 | - | F | Addition of applicability clauses for MR-DC test cases 8.2.3.13.2 and 8.2.3.14.3 | 17.1.0 |
| 2022-12 | RAN#98 | R5-227257 | 0292 | - | F | Addition of applicability for NR EIEI test cases | 17.1.0 |
| 2022-12 | RAN#98 | R5-227302 | 0294 | - | F | Addition of applicability for NR unlicensed test cases | 17.1.0 |
| 2022-12 | RAN#98 | R5-227312 | 0295 | - | F | Addition of applicability for MUSIM test cases | 17.1.0 |
| 2022-12 | RAN#98 | R5-227447 | 0274 | 1 | F | Correction to applicability of TC 8.1.5.9.1 | 17.1.0 |
| 2022-12 | RAN#98 | R5-227448 | 0279 | 1 | F | Addition of applicability of new Idle mode TCs | 17.1.0 |
| 2022-12 | RAN#98 | R5-227459 | 0277 | 1 | F | Corrections to 4.3.1 Protocol conformance test cases applicability for SNPN-only UEs | 17.1.0 |
| 2022-12 | RAN#98 | R5-227471 | 0280 | 1 | F | Add applicability for new NR V2X testcase 12.2.1.5 | 17.1.0 |
| 2022-12 | RAN#98 | R5-227474 | 0297 |  | F | Update applicabilities for test cases 8.1.1.4.4-9 | 17.1.0 |
| 2022-12 | RAN#98 | R5-227502 | 0291 | 1 | F | Addition of new UE power saving enhancements test cases | 17.1.0 |
| 2022-12 | RAN#98 | R5-227537 | 0293 | 1 | F | Addition of applicability for RedCap test cases | 17.1.0 |
| 2022-12 | RAN#98 | R5-227541 | 0283 | 1 | F | RedCap UE Test applicability for Legacy test cases | 17.1.0 |
| 2022-12 | RAN#98 | R5-227560 | 0286 | 1 | F | Addition of applicability clauses for testcases 8.2.6.3.1 and 8.2.6.3.2 | 17.1.0 |
| 2022-12 | RAN#98 | R5-227563 | 0269 | 1 | F | Add applicabilities for test cases 8.1.2.1.5.4, 8.1.2.1.5.5 and 8.1.2.1.5.6 | 17.1.0 |
| 2022-12 | RAN#98 | R5-227564 | 0278 | 1 | F | Corrections to Applicability of TC 8.2.7.2.1 and TC 8.2.6.2.2 | 17.1.0 |
| 2022-12 | RAN#98 | R5-227577 | 0263 | 1 | F | Update of 5G-NR test cases applicability | 17.1.0 |
| 2022-12 | RAN#98 | R5-227579 | 0270 | 1 | F | Addition of applicability for new eNS Ph2 test cases 9.1.13.1 | 17.1.0 |
| 2022-12 | RAN#98 | R5-227584 | 0275 | 1 | F | Addition of applicability of new SNPN Test cases | 17.1.0 |
| 2022-12 | RAN#98 | R5-227591 | 0282 | 1 | F | Updates to RedCap test case applicabilities | 17.1.0 |
| 2022-12 | RAN#98 | R5-227592 | 0285 | 1 | F | Addition of applicability of new SDTTest Cases | 17.1.0 |
| 2022-12 | RAN#98 | R5-227596 | 0281 | 1 | F | Addition of applicability for new test case from 6.3.2.1 to 6.3.2.5 | 17.1.0 |
| 2022-12 | RAN#98 | R5-227602 | 0288 | 1 | F | Test applicability for New RedCap test cases | 17.1.0 |
| 2022-12 | RAN#98 | R5-227604 | 0272 | 1 | F | Addition of applicability for PDCP UDC | 17.1.0 |
| 2023-03 | RAN#99 | R5-230114 | 0298 | - | F | Update to NSSAA test case 9.1.10.2 | 17.2.0 |
| 2023-03 | RAN#99 | R5-230115 | 0299 | - | F | Update to test case 11.4.3 | 17.2.0 |
| 2023-03 | RAN#99 | R5-230271 | 0303 | - | F | Addition of applicability of new TC 8.1.1.1a.2 | 17.2.0 |
| 2023-03 | RAN#99 | R5-230276 | 0305 | - | F | VOID applicability for SNPN NR5GC TC 10.1.7.1 | 17.2.0 |
| 2023-03 | RAN#99 | R5-230280 | 0306 | - | F | Corrections to 4.3.1 Protocol conformance test cases applicability for SNPN-only Ues | 17.2.0 |
| 2023-03 | RAN#99 | R5-230343 | 0307 | - | F | Addition of applicability for PDCP UDC | 17.2.0 |
| 2023-03 | RAN#99 | R5-230382 | 0309 | - | F | Addition of applicability for new NR slice test cases 6.1.2.24 and 6.4.2.3 | 17.2.0 |
| 2023-03 | RAN#99 | R5-230439 | 0310 | - | F | Applicability updates to NR EIEI test cases | 17.2.0 |
| 2023-03 | RAN#99 | R5-230444 | 0311 | - | F | Addition of applicability for new test case of 6.3.2.6 | 17.2.0 |
| 2023-03 | RAN#99 | R5-230546 | 0312 | - | F | Applicability updates to NR MUSIM test cases | 17.2.0 |
| 2023-03 | RAN#99 | R5-230586 | 0313 | - | F | Add applicabilities for test cases 8.2.5.7.1 and 8.2.5.7.2 | 17.2.0 |
| 2023-03 | RAN#99 | R5-230921 | 0324 | - | F | Addition of applicability for new MUSIM test cases | 17.2.0 |
| 2023-03 | RAN#99 | R5-230991 | 0325 | - | F | Add applicability for one NR multi-SIM test case | 17.2.0 |
| 2023-03 | RAN#99 | R5-231200 | 0328 | - | F | Applicability updates to NR unlicensed test cases | 17.2.0 |
| 2023-03 | RAN#99 | R5-231420 | 0315 | 1 | F | Add applicabilities for new inter-system mobility test cases | 17.2.0 |
| 2023-03 | RAN#99 | R5-231421 | 0319 | 1 | F | Update the test applicability for 7.1.1.4.1.3 and 7.1.1.4.1.4 | 17.2.0 |
| 2023-03 | RAN#99 | R5-231443 | 0302 | 1 | F | Addition of applicability of new TC 8.1.6.1.4.9 | 17.2.0 |
| 2023-03 | RAN#99 | R5-231446 | 0329 | 1 | F | Addition of applicability of new MAC test cases for RACH SDT | 17.2.0 |
| 2023-03 | RAN#99 | R5-231464 | 0300 | 1 | F | Add applicability for NR ATSSS test cases | 17.2.0 |
| 2023-03 | RAN#99 | R5-231465 | 0304 | 1 | F | Addition of applicability of new TC 8.2.6.2.4 | 17.2.0 |
| 2023-03 | RAN#99 | R5-231466 | 0323 | 1 | F | Correction to NR CA test cases 8.2.4.1.1.x | 17.2.0 |
| 2023-03 | RAN#99 | R5-231484 | 0317 | 1 | F | Addition of test applicability for MBS TC | 17.2.0 |
| 2023-03 | RAN#99 | R5-231485 | 0334 | - | F | Addition of applicability of new NE-DC test case 8.2.7.3.1 | 17.2.0 |
| 2023-03 | RAN#99 | R5-231526 | 0320 | 1 | F | Addition of applicabilities for Rel-17 IIoT\_URLLC SIG testcases | 17.2.0 |
| 2023-03 | RAN#99 | R5-231536 | 0327 | 1 | F | Update to NR TC applicability | 17.2.0 |
| 2023-03 | RAN#99 | R5-231541 | 0316 | 1 | F | Add applicabilities for new eNS test cases | 17.2.0 |
| 2023-03 | RAN#99 | R5-231557 | 0330 | 1 | F | Addition of new applicability of MAC test cases for RAN enhancements for NR slicing | 17.2.0 |
| 2023-03 | RAN#99 | R5-231559 | 0308 | 1 | F | Addition of applicability for new SON\_MDT test cases 8.1.6.1.2.14 and 8.1.6.1.2.15 | 17.2.0 |
| 2023-03 | RAN#99 | R5-231575 | 0314 | 1 | F | Add applicabilities for new NE-DC test cases | 17.2.0 |
| 2023-03 | RAN#99 | R5-231582 | 0333 | 1 | F | Applicability of new test case for RRC DL segmentation | 17.2.0 |
| 2023-03 | RAN#99 | R5-231588 | 0326 | 1 | F | Applicability for moved RedCap TC 8.1.3.4.1 | 17.2.0 |
| 2023-03 | RAN#99 | R5-231593 | 0318 | 1 | F | Add test applicability for SDT TC | 17.2.0 |
| 2023-03 | RAN#99 | R5-231596 | 0321 | 1 | F | Addition of applicabilities for SDT testcases 8.1.5.13.3 and 8.1.5.13.4 | 17.2.0 |
| 2023-03 | RAN#99 | R5-231597 | 0331 | 1 | F | Corrections to applicability of SDT TCs | 17.2.0 |
| 2023-03 | RAN#99 | R5-231599 | 0332 | 1 | F | Addition of new UE power saving enhancements test cases | 17.2.0 |
| 2023-03 | RAN#99 | R5-231903 | 0336 | 1 | F | Update to Applicability for Test Case 7.1.1.8.1 | 17.2.0 |
| 2023-03 | RAN#99 | R5-231911 | 0337 | - | F | Guidance on usage of PICS parameters | 17.2.0 |
| 2023-03 | RAN#99 | R5-230343 | 0307 | - | F | implementation of missing CR "Addition of applicability for PDCP UDC" | 17.2.1 |
| 2023-06 | RAN#100 | R5-232038 | 0338 | - | F | Add applicability for NR multi-SIM test case 8.1.5.10.2 | 17.3.0 |
| 2023-06 | RAN#100 | R5-232118 | 0339 | - | F | Update of 5G-NR test cases applicability | 17.3.0 |
| 2023-06 | RAN#100 | R5-232269 | 0342 | - | F | Addition of applicability for PDCP UDC test cases | 17.3.0 |
| 2023-06 | RAN#100 | R5-232270 | 0343 | - | F | Add applicability for ATSSS TC 10.4.2.2 | 17.3.0 |
| 2023-06 | RAN#100 | R5-232646 | 0350 | - | F | Correction to applicability of NR MAC test cases 7.1.1.7.1.x | 17.3.0 |
| 2023-06 | RAN#100 | R5-232647 | 0351 | - | F | Correction to applicability of NR MAC test case 7.1.1.12.3 | 17.3.0 |
| 2023-06 | RAN#100 | R5-232685 | 0352 | - | F | Addition of applicability of new RRC TC for RRCRelease with redirection with mpsPriorityIndication-r16 | 17.3.0 |
| 2023-06 | RAN#100 | R5-232708 | 0354 | - | F | Addition of applicability for new ATSSS test case 10.4.1.5 and 10.4.1.6 | 17.3.0 |
| 2023-06 | RAN#100 | R5-232943 | 0355 | - | F | Addition of test applicability for RedCap TC | 17.3.0 |
| 2023-06 | RAN#100 | R5-233079 | 0359 | - | F | Applicability updates to NR unlicensed test cases | 17.3.0 |
| 2023-06 | RAN#100 | R5-233185 | 0361 | - | F | Update to applicability of UAC TC11.3.1a | 17.3.0 |
| 2023-06 | RAN#100 | R5-233194 | 0362 | - | F | Editorial correction to specific ICS of test case 8.1.5.9.1 | 17.3.0 |
| 2023-06 | RAN#100 | R5-233291 | 0365 | - | F | Correction to the applicability of TC 8.1.7.1.1 | 17.3.0 |
| 2023-06 | RAN#100 | R5-233357 | 0345 | 1 | F | Add applicabilities for new inter-system mobility test cases | 17.3.0 |
| 2023-06 | RAN#100 | R5-233381 | 0363 | 1 | F | Addition of applicability of new RRC test cases Enhancement of data collection for SON/MDT in NR standalone | 17.3.0 |
| 2023-06 | RAN#100 | R5-233390 | 0356 | 1 | F | Addition of test applicability for MBS TC | 17.3.0 |
| 2023-06 | RAN#100 | R5-233393 | 0357 | 1 | F | Add test applicability for EPS UPIP TC | 17.3.0 |
| 2023-06 | RAN#100 | R5-233394 | 0349 | 1 | F | Addition of applicability for NR cov enh SIG TCs | 17.3.0 |
| 2023-06 | RAN#100 | R5-233466 | 0344 | 1 | F | Add applicabilities for new NR 2 step RACH test cases | 17.3.0 |
| 2023-06 | RAN#100 | R5-233472 | 0341 | 1 | F | Addition of applicability of test case 6.1.2.25 | 17.3.0 |
| 2023-06 | RAN#100 | R5-233476 | 0353 | 1 | F | Addition of applicability of new Idle mode TC to test the intraFreqReselection in MIB message is set to not allowed | 17.3.0 |
| 2023-06 | RAN#100 | R5-233484 | 0347 | 1 | F | Update titles for test cases 8.1.1.4.7-9 | 17.3.0 |
| 2023-09 | RAN#101 | R5-233841 | 0366 | - | F | Correction of clause 4 | 17.4.0 |
| 2023-09 | RAN#101 | R5-234006 | 0369 | - | F | Update of applicability of eDRX TC 11.7.2 | 17.4.0 |
| 2023-09 | RAN#101 | R5-234007 | 0370 | - | F | Addition of applicability of eDRX TC 11.7.3 | 17.4.0 |
| 2023-09 | RAN#101 | R5-234022 | 0371 | - | F | Update of applicability for video call cases | 17.4.0 |
| 2023-09 | RAN#101 | R5-234023 | 0372 | - | F | Update of applicabitiy for Multi-SPS test cases | 17.4.0 |
| 2023-09 | RAN#101 | R5-234082 | 0373 | - | F | Correction of condition for MDT Test Case | 17.4.0 |
| 2023-09 | RAN#101 | R5-234224 | 0376 | - | F | Correction of SCell dormancy indication test applicabilities | 17.4.0 |
| 2023-09 | RAN#101 | R5-234473 | 0387 | - | F | Addition of test applicablity for MBS TC | 17.4.0 |
| 2023-09 | RAN#101 | R5-234480 | 0389 | - | F | Update test condition for 10.1.1.1 and 10.1.1.2 | 17.4.0 |
| 2023-09 | RAN#101 | R5-234720 | 0395 | - | F | Addition of applicability for new SON\_MDT test cases 8.1.6.1.2.16 | 17.4.0 |
| 2023-09 | RAN#101 | R5-234724 | 0396 | - | F | Addition of applicability for new NR slice test cases 8.1.1.3.9 | 17.4.0 |
| 2023-09 | RAN#101 | R5-235089 | 0401 | - | F | Title update to NR unlicensed test cases | 17.4.0 |
| 2023-09 | RAN#101 | R5-235091 | 0402 | - | F | Addition of applicability for new MPS priority indication UAC test case | 17.4.0 |
| 2023-09 | RAN#101 | R5-235300 | 0375 | 1 | F | Addition of applicability for new test case 11.3.12 | 17.4.0 |
| 2023-09 | RAN#101 | R5-235476 | 0385 | 2 | F | Editorial updates to 38.523-2 tables | 17.4.0 |
| 2023-09 | RAN#101 | R5-235305 | 0394 | 1 | F | Update of applicability for ENDC TC 8.2.6.3.1 | 17.4.0 |
| 2023-09 | RAN#101 | R5-235310 | 0403 | 1 | F | Applicability updates to NR shared spectrum test cases | 17.4.0 |
| 2023-09 | RAN#101 | R5-235316 | 0399 | 1 | F | Addition of test applicablity for RedCap TC | 17.4.0 |
| 2023-09 | RAN#101 | R5-235347 | 0382 | 1 | F | Applicability updates for eDRX / IDLE / Paging for notification of BCCH modification test case | 17.4.0 |
| 2023-09 | RAN#101 | R5-235355 | 0374 | 1 | F | Add applicabilities for new MDT enhance test cases | 17.4.0 |
| 2023-09 | RAN#101 | R5-235363 | 0368 | 1 | F | Addition of applicability for eNPN test cases | 17.4.0 |
| 2023-09 | RAN#101 | R5-235382 | 0367 | 1 | F | Add test applicability for EPS UPIP TC | 17.4.0 |
| 2023-09 | RAN#101 | R5-235383 | 0388 | 1 | F | Correction of test appicability for UPIP TC | 17.4.0 |
| 2023-09 | RAN#101 | R5-235384 | 0397 | 1 | F | Addition of applicability for new UPIP test case 7.1.3.2.6 | 17.4.0 |
| 2023-09 | RAN#101 | R5-235419 | 0404 | 1 | F | Updates to Applicability of Protocol conformance test cases Conditions for NTN TC | 17.4.0 |
| 2023-09 | RAN#101 | R5-235422 | 0406 | - | F | Addition of Applicability for UAS Test Cases | 17.4.0 |
| 2023-12 | RAN#102 | R5-236170 | 0407 | - | F | Addition of applicability for NR feMIMO TC 7.1.1.1.19 and 7.1.1.2.7 | 17.5.0 |
| 2023-12 | RAN#102 | R5-236188 | 0409 | - | F | Update of applicability of EIEI TC 11.5.6 | 17.5.0 |
| 2023-12 | RAN#102 | R5-236311 | 0414 | - | F | Correction of clause 4.2 | 17.5.0 |
| ~~2023-12~~ | ~~RAN#102~~ | ~~R5-236478~~ | ~~0417~~ | ~~-~~ | ~~F~~ | ~~Correction of condition for MDT Test Case~~ | ~~17.5.0~~ |
| 2023-12 | RAN#102 | R5-236564 | 0418 | - | F | Update to applicability and condition for MICO mode test case 9.1.5.1.4 | 17.5.0 |
| 2023-12 | RAN#102 | R5-236584 | 0420 | - | F | Addition of Applicability of Protocol conformance test cases for NR-NTN | 17.5.0 |
| 2023-12 | RAN#102 | R5-236588 | 0421 | - | F | Addition of applicability and condition for new 5GC NR to EUTRA Priority indication test case | 17.5.0 |
| 2023-12 | RAN#102 | R5-236892 | 0423 | - | F | Applicability of new UAS test cases | 17.5.0 |
| 2023-12 | RAN#102 | R5-237302 | 0426 | - | F | Correction to applicability of 2-Step RACH test cases in RRC idle mode. | 17.5.0 |
| 2023-12 | RAN#102 | R5-237379 | 0408 | 1 | F | Update of applicability of UAC TC 11.3.1 | 17.5.0 |
| 2023-12 | RAN#102 | R5-237398 | 0415 | 1 | F | Addition of test applicability for SRS partial sounding | 17.5.0 |
| 2023-12 | RAN#102 | R5-237419 | 0422 | 1 | F | Addition of applicability of new ING\_5GS test case 11.1.10 | 17.5.0 |
| 2023-12 | RAN#102 | R5-237449 | 0412 | 1 | F | Addition of applicability for eNPN test cases | 17.5.0 |
| 2023-12 | RAN#102 | R5-237460 | 0413 | 1 | F | Correction of applicability for test case 8.1.1.2.4 | 17.5.0 |
| 2023-12 | RAN#102 | R5-237462 | 0427 | 1 | F | Update of applicability for test cases 8.1.6.1.2.14 | 17.5.0 |
| 2024-03 | RAN#103 | R5-240546 | 0437 | - | F | Misc. updates to TS 38.523-2 | 17.6.0 |
| 2024-03 | RAN#103 | R5-240628 | 0438 | - | F | Modification of testcase 8.1.5.13.2 applicability clauses | 17.6.0 |
| 2024-03 | RAN#103 | R5-240991 | 0446 | - | F | Applicability updates to NR shared spectrum test cases | 17.6.0 |
| 2024-03 | RAN#103 | R5-241159 | 0447 | - | F | Correction to applicability of EN-DC CA test cases | 17.6.0 |
| 2024-03 | RAN#103 | R5-241185 | 0449 | - | F | Applicability for new test case 11.4.15 | 17.6.0 |
| 2024-03 | RAN#103 | R5-241451 | 0451 | - | F | Correction of applicability for partial sounding test case | 17.6.0 |
| 2024-03 | RAN#103 | R5-241540 | 0444 | 1 | F | Correction of applicability for V2X SIG test cases | 17.6.0 |
| 2024-03 | RAN#103 | R5-241547 | 0436 | 1 | F | Update the applicability of PEIPS TC 9.1.14.1 and 11.4.1a | 17.6.0 |
| 2024-03 | RAN#103 | R5-241589 | 0434 | 1 | F | Scoping NR SA applicable TCs for SNPN-only UEs | 17.6.0 |
| 2024-03 | RAN#103 | R5-241604 | 0435 | 1 | F | Addition of applicability for inter-SN conditional PSCell change | 17.6.0 |
| 2024-03 | RAN#103 | R5-241621 | 0452 | 1 | F | Add applicability for Rel-17 ATSSS test cases | 17.6.0 |
| 2024-03 | RAN#103 | R5-241645 | 0448 | 1 | F | Correction to title of 8.1.5.9.1 | 17.6.0 |
| 2024-03 | RAN#103 | R5-241646 | 0433 | 1 | F | Addition of applicability for eNPN test cases | 17.6.0 |
| 2024-03 | RAN#103 | R5-241650 | 0445 | 1 | F | Applicability updates to NR NTN test cases | 17.6.0 |
| 2024-03 | RAN#103 | R5-241651 | 0450 | 1 | F | Applicability updates for new NTN Idle mode and NAS test cases | 17.6.0 |
| 2024-03 | RAN#103 | R5-241652 | 0442 | 1 | F | Applicability of New NR NTN TC for Event D1 | 17.6.0 |
| 2024-03 | RAN#103 | R5-241654 | 0453 | 1 | F | Addition of applicability of new ING\_5GS test case 9.3.1.6 | 17.6.0 |
| 2024-03 | RAN#103 | R5-241159 | 0447 | - | F | Addition of missing changes of C67, C68, C69 part of R5-241159 | 17.6.1 |