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| 3GPP TS 34.229-5 V15.6.0 (2021-12) | |
| Technical Specification | |
| 3rd Generation Partnership Project;  Technical Specification Group Radio Access Network;  Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP);  User Equipment (UE) conformance specification;  Part 5: Protocol conformance specification using 5G System (5GS)  (Release 15) | |
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# Foreword

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

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

Version x.y.z

where:

x the first digit:

1 presented to TSG for information;

2 presented to TSG for approval;

3 or greater indicates TSG approved document under change control.

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

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

In the present document, certain modal verbs have the following meanings:

**shall** indicates a mandatory requirement to do something

**shall not** indicates an interdiction (prohibition) to do something

The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

**should** indicates a recommendation to do something

**should not** indicates a recommendation not to do something

**may** indicates permission to do something

**need not** indicates permission not to do something

The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

**can** indicates that something is possible

**cannot** indicates that something is impossible

The constructions "can" and "cannot" shall not to be used as substitutes for "may" and "need not".

**will** indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**will not** indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**might** indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

**might not** indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

**is** (or any other verb in the indicative mood) indicates a statement of fact

**is not** (or any other negative verb in the indicative mood) indicates a statement of fact

The constructions "is" and "is not" do not indicate requirements.

# Introduction

The present document is the fifth part of a multi-part conformance specification valid for 3GPP Release 15 and later releases:

3GPP TS 34.229-1 [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 1: Protocol conformance specification".

3GPP TS 34.229-2 [3]: "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) proforma specification".

3GPP TS 34.229-3 [4]: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract Test Suites (ATS)".

3GPP TS 34.229-4 [5]: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 4: Enabler for IP multimedia applications testing".

**3GPP TS 34.229-5 (the present document): "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 5: Protocol conformance specification using 5G System (5GS)".**

NOTE 1: The ATS is written in a standard testing language, TTCN-3, as defined in ETSI ES 201 873, Parts 1 to 3 [8], [9] and [10].

NOTE 2: Further information on testing can be found in ETSI ETS 300 406 [11] and ISO/IEC 9646-1 [12].

For at least a minimum set of services, the prose descriptions of test cases will have a matching detailed test case implemented in TTCN-3 (and provided in 3GPP TS 34.229-3 [4]).

# 1 Scope

The present document specifies the protocol conformance testing for the User Equipment (UE) supporting the Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) when using the 5G System (5GS).

This is the fifth part of a multi-part test specification. The following information can be found in this part:

- the overall test structure;

- the test configurations;

- the conformance requirement and reference to the core specifications;

- the test purposes; and

- the test procedure.

The following information relevant to testing can be found in accompanying specifications:

- Implementation Conformance Statement (ICS) pro-forma and the applicability of each test case [3].

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] to [48] (void)

[49] 3GPP TS 34.229-5 Release 16: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 5: Protocol conformance specification using 5G System (5GS)"

# 3 Definitions of terms, symbols and abbreviations

Void

# 4 Overview

## 4.1 Test Methodology

The requirements of the present document are provided in 3GPP TS 34.229-5 Release 16 [49].

# 5 to 10 Void

Annex A: Void

Annex B (informative):  
Change history

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| **Change history** | | | | | | | |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** |
| 2019-10 | RAN5#85 | R5-197746 | - | - | - | First draft version V0.1.0 made available | 0.1.0 |
| 2019-11 | RAN5#85 | R5-198832 | - | - | - | Second draft version V0.2.0 made available, implementing pCRs  R5-197934, R5-198899, R5-198239, R5-198240, and R5-198241 | 0.2.0 |
| 2020-06 | RAN5#87-e | R5-201458 | - | - | - | Third draft version V0.3.0 made available, implementing pCRs  R5-202693, R5-202686, R5-202687, R5-202688, R5-202689,  R5-202678, R5-202679, R5-202680, R5-202681, R5-202682,  R5-202690, R5-202683, R5-202684, R5-202685, R5-202691,  R5-202692 | 0.3.0 |
| 2020-06 | RAN5#87-e | - | - | - | - | Raised to v15.0.0 | 15.0.0 |
| 2020-09 | RAN5#88-e | R5-203437 | 0004 | - | F | Corrections to A.2 on IMS Registration | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203439 | 0006 | - | F | New generic procedure for MT Call Release | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203440 | 0007 | - | F | Adding references as needed | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203441 | 0008 | - | F | Corrections to test cases 7.6 and 7.7 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203442 | 0009 | - | F | Corrections to test case 6.1 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203443 | 0010 | - | F | Corrections to test case 6.2 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203445 | 0012 | - | F | Corrections to test case 6.4 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203447 | 0013 | - | F | Corrections to test case 6.5 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203448 | 0014 | - | F | Corrections to test case 6.6 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203452 | 0015 | - | F | Corrections to test case 6.7 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203453 | 0016 | - | F | Corrections to test case 6.8 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203454 | 0017 | - | F | Corrections to test case 6.9 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203461 | 0018 | - | F | Corrections to MTSI MT Voice Call TC 7.6 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-203462 | 0019 | - | F | Corrections to Annex A.5.1 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-204477 | 0001 | 1 | F | Addition of IMS NR TC 9.4-MT Concatenated SMS | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-204478 | 0002 | 1 | F | Addition of IMS NR TC 9.5-MO SMS RP-ERROR | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-204479 | 0003 | 1 | F | Addition of IMS NR TC 10.1-emergency call with registration and Location | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-204480 | 0005 | 1 | F | Adding details for A.3 for IMS Emergency Registration | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-204481 | 0011 | 1 | F | Corrections to test case 6.3 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-204482 | 0020 | 1 | F | Addition of new IMS 5GS test case 9.1 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-204483 | 0021 | 1 | F | Addition of new IMS 5GS test case 9.2 | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-204484 | 0022 | 1 | F | New generic IMS procedures for use in EPS fallback | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-204485 | 0023 | 1 | F | Addition of NR TC 8.18 Barring of All Incoming Calls / except for a specific user / 5GS | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-204486 | 0024 | 1 | F | Addition of NR TC 9.3 Mobile Originating Concatenated SMS / 5GS | 15.1.0 |
| 2020-09 | RAN5#88-e | R5-204487 | 0026 | 1 | F | Addition of new IMS test case 8.1 | 15.1.0 |
| 2020-12 | RAN5#89-e | R5-205113 | 0029 |  | F | Corrections to A.9 on EPS Fallback | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-205115 | 0030 |  | F | Corrections to A.2 and addition of A.10 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-205157 | 0033 |  | F | Correction to 5GS IMS test case 9.3 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-205158 | 0034 |  | F | Correction to 5GS IMS test case 9.4 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-205159 | 0035 |  | F | Correction to 5GS IMS test case 9.5 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-205185 | 0037 |  | F | New generic procedure for Re-Registration | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-205217 | 0043 |  | F | Corrections to test case 6.6 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-205219 | 0044 |  | F | Corrections to A.7 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-205220 | 0045 |  | F | New References | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-205311 | 0046 |  | F | Corrections to generic procedure A.4 on MO Voice Call | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-205312 | 0047 |  | F | Corrections to generic procedure A.5 on MT Voice Call | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-205518 | 0057 |  | F | Corrections to A.6 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-205585 | 0063 |  | F | Correction to Clause A.2 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206287 | 0031 | 1 | F | Correction to 5GS IMS test case 9.1 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206372 | 0032 | 1 | F | Correction to 5GS IMS test case 9.2 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206373 | 0036 | 1 | F | New generic procedure for Mobile Initiated De-Registration | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206374 | 0038 | 1 | F | Introduction of generic procedures for IMS MO and MT SMS | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206375 | 0039 | 1 | F | Addition of MTSI MT Voice Call Test Case 7.8 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206376 | 0040 | 1 | F | Addition of MTSI MT Voice Call Test Case 7.9 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206377 | 0041 | 1 | F | Addition of MTSI MT Voice Call Test Case 7.11 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206378 | 0048 | 1 | F | Editorial correction to add the title of section 10 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206379 | 0049 | 1 | F | Addition of IMS NR TC 7.3-MO Voice 421 Extension Required | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206468 | 0050 | 2 | F | Addition of IMS NR TC 7.12-MO Voice MO-MT UE with-without preconditions | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206381 | 0051 | 1 | F | Addition of IMS NR TC 7.10-MT Voice without preconditions and SDP offer | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206382 | 0058 | 1 | F | Update test case 7.4, 7.5, 7.6 and 7.7 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206383 | 0060 | 1 | F | Correction to 5GS IMS TC 6.1 | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206384 | 0062 | 1 | F | Addition of New IMS over 5GS TC 7.2 MTSI MO Voice Call / 504 Server Time-out / 5GS | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206385 | 0068 | 1 | F | Addition of new IMS over 5GS TC 7.1 MTSI MO Voice Call / 503 Service Unavailable / 5GS | 15.2.0 |
| 2020-12 | RAN5#89-e | R5-206386 | 0069 | 1 | F | Correction to 5GS IMS TC 6.7 | 15.2.0 |
| 2021-01 | RAN5#89-e | - | - | - | - | History correction for R5-206468.  Corrected parts of implementations of R5-206287 and R5-206386 | 15.2.1 |
| 2021-03 | RAN5#90-e | R5-210056 | 0070 | - | F | Corrections to A.5 on MT Voice Call | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-210057 | 0071 | - | F | Corrections to test case 6.3 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-210095 | 0073 | - | F | Corrections to test case 6.4 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-210196 | 0084 | - | F | Corrections to SMS test case 9.5 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-210259 | 0085 | - | F | Corrections to A.11 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-210343 | 0090 | - | F | Corrections and extensions to test case 7.4 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-210348 | 0091 | - | F | Adding NG.114 dependencies to Annex A.4 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-210659 | 0104 | - | F | Withdrawing NR IMS TC 7.3-MO voice-UE preconditions enabled but not included in INVITE | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-210882 | 0114 | - | F | Correction to NR IMS TC 7.1-Shorter Retry-after period | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211334 | 0072 | 1 | F | Addition of IMS over 5GS test case 7.25 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211421 | 0074 | 1 | F | Addition of IMS over 5GS test case 7.27 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211422 | 0075 | 1 | F | Addition of IMS over 5GS test case 7.28 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211423 | 0076 | 1 | F | Addition of IMS over 5GS test case 7.29 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211424 | 0077 | 1 | F | Addition of IMS over 5GS test case 7.30 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211425 | 0078 | 1 | F | Addition of IMS over 5GS test case 7.31 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211426 | 0079 | 1 | F | Addition of IMS over 5GS test case 7.32 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211427 | 0080 | 1 | F | Addition of IMS over 5GS test case 7.33 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211428 | 0081 | 1 | F | Addition of IMS over 5GS test case 7.34 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211429 | 0083 | 1 | F | Update test case 7.4, 7.5, 7.6 and 7.7 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211430 | 0092 | 1 | F | Editorial corrections to TS 34.229-5 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211431 | 0094 | 1 | F | Addition of IMS over 5GS TC 7.14 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211432 | 0095 | 1 | F | Adding references | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211433 | 0096 | 1 | F | Addition of A.15.1 MTSI MO Video Call / with preconditions / 5GS | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211434 | 0099 | 1 | F | Correction to IMS over 5GS TC 7.2 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211435 | 0100 | 1 | F | Correction to IMS over 5GS TC 7.11 | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211436 | 0102 | 1 | F | Correction to NR IMS TC 7.10-Content Type not present | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211437 | 0103 | 1 | F | Correction to NR IMS A.9.2-Optional UPDATE after EPS fallback | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211438 | 0105 | 1 | F | Correction to NR IMS TC 10.1-Conformance requirement update | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211439 | 0106 | 1 | F | Addition of NR IMS TC 7.26-MO CAT forking model | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211440 | 0107 | 1 | F | Addition of NR IMS TC 8.26-MO hold without announcement | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211441 | 0108 | 1 | F | Addition of NR IMS TC 8.28-MT hold without announcement | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211442 | 0109 | 1 | F | Addition of NR IMS TC 8.30-Subscription to MWI event | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211443 | 0110 | 1 | F | Addition of NR IMS TC 8.31-Creating and leaving conference | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211444 | 0111 | 1 | F | Addition of NR IMS TC 8.32-Inviting user to conference by REFER | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211445 | 0112 | 1 | F | Addition of NR IMS TC 8.34-Three way session | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211446 | 0113 | 1 | F | Addition of NR IMS TC 8.36-MO explicit communication transfer | 15.3.0 |
| 2021-03 | RAN5#90-e | R5-211447 | 0115 | 1 | F | Addition of new IMS over 5GS TC 8.38 Communication Waiting and cancelling the call / 5GS | 15.3.0 |
| 2021-06 | RAN5#91-e | R5-212047 | 0116 | - | F | Corrections to test case 7.4 regarding NG.114 Profile Requirements | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-212048 | 0117 | - | F | Corrections to generic procedure A.4 on MO Voice Call | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-212060 | 0118 | - | F | New References | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-212076 | 0119 | - | F | Corrections to TC 7.26 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-212104 | 0121 | - | F | Addition of IMS over 5GS test case 7.19 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-212127 | 0123 | - | F | Corrections to TC 6.4 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-212160 | 0125 | - | F | Corrections to TC 7.25 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-212208 | 0126 | - | F | Corrections to TC 7.8 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-212209 | 0127 | - | F | Corrections to TC 7.7 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-212387 | 0133 | - | F | Corrections to TC 10.1 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-212388 | 0134 | - | F | Corrections to A.6 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213367 | 0161 | - | F | Addition of MTSI MO video call without precondition | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213520 | 0120 | 1 | F | Addition of IMS over 5GS test case 7.18 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213521 | 0122 | 1 | F | Corrections to TC 7.1 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213522 | 0128 | 1 | F | Corrections to TC 8.36 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213523 | 0130 | 1 | F | Corrections regarding a=sendrecv and a=inactive | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213524 | 0131 | 1 | F | Addition of generic procedure for MT Video Call | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213525 | 0132 | 1 | F | Corrections to TC 7.11 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213526 | 0135 | 1 | F | Correction to NR IMS TC 8.26-MO hold without announcement | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213527 | 0136 | 1 | F | Correction to NR IMS TC 8.28-MT hold without announcement | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213528 | 0137 | 1 | F | Correction to NR IMS TC 8.34-Three way session | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213529 | 0139 | 1 | F | Addition of NR IMS Generic Procedure A.17-MTSI speech hold or resume | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213530 | 0140 | 1 | F | Addition of NR IMS Generic Procedure A.18-MTSI speech hold or resume from SS | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213531 | 0141 | 1 | F | Addition of NR IMS Generic Procedure A.19-MTSI conference creation | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213532 | 0142 | 1 | F | Addition of NR IMS Generic Procedure A.20-REFER inviting user to conference | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213533 | 0162 | 1 | F | Corrections to IMS over 5GS Test Case 7.31 and 7.32 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213534 | 0146 | 1 | F | Corrections to IMS over 5GS Test Case 6.2 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213535 | 0148 | 1 | F | Clarifications on usage of preconditions | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213536 | 0149 | 1 | F | Addition of NR IMS 7.13-MT Voice with RTCP disabled | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213537 | 0150 | 1 | F | Addition of NR IMS 7.15-MO Video without preconditions | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213538 | 0151 | 1 | F | Addition of NR IMS 7.16-MT Video with preconditions | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213539 | 0152 | 1 | F | Addition of NR IMS 7.17-MT Video without preconditions | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213540 | 0153 | 1 | F | Addition of NR IMS 7.20-MO Voice-add and remove video-with preconditions | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213541 | 0154 | 1 | F | Addition of NR IMS 7.21-MO Voice-add and remove video-without preconditions | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213542 | 0155 | 1 | F | Addition of NR IMS 7.23-MT Voice-add and remove video-without preconditions | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213543 | 0156 | 1 | F | Addition of NR IMS 7.24-Forking-two responses one cancel | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213544 | 0157 | 1 | F | Addition of new IMS over 5GS TC 7.22 MTSI MT Voice Call / add video and remove video / with preconditions at both originating UE and terminating UE / 5GS | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213545 | 0160 | 1 | F | Correction to test cases 7.33 | 15.4.0 |
| 2021-06 | RAN5#91-e | R5-213674 | 0147 | 1 | F | Corrections to IMS over 5GS Test Case 7.14 | 15.4.0 |
| 2021-09 | RAN5#92-e | R5-214205 | 0164 | - | F | Corrections to IMS5GS test case 6.4 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214223 | 0168 | - | F | Corrections to IMS5GS test case 7.24 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214225 | 0169 | - | F | Corrections to IMS5GS Generic Procedures A.7 and A.8 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214226 | 0170 | - | F | Corrections to IMS5GS test case 7.25 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214314 | 0171 | - | F | Corrections to IMS5GS test case 7.21 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214386 | 0176 | - | F | Corrections to IMS5GS Generic Procedure A.15 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214442 | 0180 | - | F | New generic procedure for activation and de-activation of Supplementary Services | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214443 | 0181 | - | F | New generic procedure for GAA XCAP authentication | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214444 | 0182 | - | F | Corrections to IMS5GS test case 7.27 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214445 | 0183 | - | F | Corrections to IMS5GS test case 7.28 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214446 | 0184 | - | F | Corrections to IMS5GS test case 7.29 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214450 | 0188 | - | F | Corrections to IMS over 5GS test case 7.33 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214451 | 0189 | - | F | Corrections to IMS5GS test case 7.34 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214812 | 0190 | - | F | Correction to IMS NR A.5.1-adding conf in SDP | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214813 | 0191 | - | F | Correction to IMS NR A.14-wrong arrows | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214815 | 0193 | - | F | Correction to IMS NR 8.32-using generic procedures of inviting user to conference | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214821 | 0199 | - | F | Addition of IMS NR generic procedures-leaving a conference | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-214893 | 0214 | - | F | Corrections to IMS over 5GS TC 7.14 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-215694 | 0226 | - | F | To void the IMS registration test case 6.5 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-215721 | 0179 | 1 | F | Corrections to IMS5GS test case 8.30 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-215722 | 0185 | 1 | F | Corrections to IMS5GS test case 7.30 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-215723 | 0219 | 1 | F | Update test case 7.4 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216210 | 0166 | 1 | F | Corrections to IMS5GS test case 7.1 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216211 | 0167 | 1 | F | Adding references | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216212 | 0173 | 1 | F | Corrections to IMS5GS test case 7.20 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216213 | 0174 | 1 | F | Corrections to IMS5GS test case 7.22 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216214 | 0175 | 1 | F | Corrections to IMS5GS test case 7.23 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216215 | 0177 | 1 | F | Corrections to IMS5GS Generic Procedure A.16 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216216 | 0186 | 1 | F | Corrections to IMS5GS test case 7.31 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216217 | 0187 | 1 | F | Corrections to IMS5GS test case 7.32 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216218 | 0192 | 1 | F | Correction to IMS NR 8.31-using generic procedures of creating and leaving a conference | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216219 | 0194 | 1 | F | Addition of IMS NR TC 10.2-emergency call with reg-location unavailable | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216220 | 0195 | 1 | F | Addition of IMS NR TC 10.3-emergency call with reg-other IMS in parallel | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216221 | 0196 | 1 | F | Addition of IMS NR TC 10.11-new emergency reg after new IP | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216222 | 0197 | 1 | F | Addition of IMS NR TC 10.12-uer initiated emergency reg with ongoing dialog | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216223 | 0198 | 1 | F | Addition of IMS NR TC 10.13-uer initiated emergency reg-initiates a call | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216224 | 0200 | 1 | F | Addition of new 5GS IMS test case 8.27 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216225 | 0201 | 1 | F | Addition of new 5GS IMS test case 8.29 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216226 | 0202 | 1 | F | Addition of new 5GS IMS test case 8.33 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216227 | 0203 | 1 | F | Addition of new 5GS IMS test case 8.35 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216228 | 0204 | 1 | F | Addition of new 5GS IMS test case 8.37 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216229 | 0205 | 1 | F | Addition of new 5GS IMS test case 8.40 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216230 | 0206 | 1 | F | Addition of new 5GS IMS test case 8.41 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216231 | 0207 | 1 | F | Addition of new 5GS IMS test case 10.14 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216232 | 0208 | 1 | F | Addition of new 5GS IMS test case 10.15 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216233 | 0209 | 1 | F | Addition of new 5GS IMS generic procedure A.24 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216234 | 0210 | 1 | F | Addition of new 5GS IMS generic procedure A.25 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216235 | 0211 | 1 | F | Addition of new 5GS IMS generic procedure A.26 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216236 | 0213 | 1 | F | Corrections to IMS over 5GS TCs 8.1 and 8.18 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216237 | 0215 | 1 | F | Addition of new IMS over 5GS TC 10.6 Non-UE detectable emergency call / IM CN sends 380 with an Alternative Service / Previous emergency IMS registration not expired / 5GS | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216238 | 0218 | 1 | F | Update to Re-Registration test case 6.6 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216240 | 0223 | 1 | F | Addition of test case 10.4 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216241 | 0224 | 1 | F | Addition of test case 10.9 | 15.5.0 |
| 2021-09 | RAN5#92-e | R5-216242 | 0225 | 1 | F | Correction to IMS video call test case 7.15 | 15.5.0 |
| 2021-12 | RAN5#93-e | R5-217151 | 0273 | - | F | Removal of technical content in 34.229-5 v15.5.0 and substitution with pointer to the next Release | 15.6.0 |