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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 2: Implementation Conformance Statement (ICS) specification

(Release 16)



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Keywords

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Contents

Foreword 4

Introduction 4

1 Scope 5

2 References 5

3 Definitions and abbreviations 9

3.1 Definitions 9

3.2 Abbreviations 9

4 Recommended test case applicability 9

4.1 Applicabilities for test cases specified in TS 34.229-1 11

4.2 Applicabilities for test cases specified in TS 34.229-5 32

Annex A (normative): ICS proforma for 3rd Generation User Equipment supporting IP multimedia call control based on SIP and SDP 43

A.1 Guidance for completing the ICS proforma 43

A.1.1 Purposes and structure 43

A.1.2 Abbreviations and conventions 43

A.1.3 Instructions for completing the ICS proforma 44

A.2 Identification of the User Equipment 44

A.2.1 Date of the statement 45

A.2.2 User Equipment Under Test (UEUT) identification 45

A.2.3 Product supplier 45

A.2.4 Client 46

A.2.5 ICS contact person 46

A.3 Identification of the protocol 46

A.4 ICS proforma tables 46

A.4.1 Roles 47

A.4.2 ICS related to SIP 47

A.4.2.1 Major capabilities 47

A.4.2.2 Void 48

A.4.2.3 Security 48

A.4.2.4 Addressing 48

A.4.2.5 SIP Compression 48

A.4.3 Void 49

A.4.4 Void 49

A.4.5 Additional information 49

A.4.6 Additional information for IPv4 52

A.4.7 MTSI media 53

A.4.8 MTSI supplementary services 53

A.4.9 MTSI media change 55

A.4.10 UE Implementation Types 55

A.4.11 Special Conformance Testing Functions 56

A.4.12 NG.102 56

A.4.13 NG.114 versions 56

A.4.14 NG.114 capabilities 57

Annex B (informative): Change history 58

# 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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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.

# Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

The present document is 2nd part of a multi-part conformance test specification for UE and is *valid for 3GPP Release 5 (respectively Release 15 for 5GS test cases)*. The specification contains the UE IMS CC capability and the applicability of the UE IMS CC conformance test cases.

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

**3GPP TS 34.229-2 (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 2: Implementation Conformance Statement (ICS) proforma specification" - current document.**

3GPP TS 34.229-3 [6]: "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 34.229-5 [95]: "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: For conformance testing of the UTRAN requirements refer to 3GPP TS 34.123 Parts 1 to 3 [2] [3] [4].

# 1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation User Equipment (UE) supporting the Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP), in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [8] and ETS 300 406 [9].

The present document also specifies a recommended applicability statement for the test cases included in TS 34.229-1 [5] and TS 34.229-5 [95]. These applicability statements are based on the features implemented in the UE.

The present document is valid for UE implemented according to 3GPP releases starting from Release 5 up to the Release indicated on the cover page of the present document.

Also, it is generally assumed that an IMS capable UE is compliant to GSMA PRD IR.92 [83] and GSMA PRD IR.94 [75];any update of requirements in these GSMA PRD documents, which are relevant to the present document will be handled on a case by case basis, with due consideration given for grace period to be granted for the UE to comply to any updated requirements.

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

1. References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.
2. For a specific reference, subsequent revisions do not apply.
3. 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 unless the context in which the reference is made suggests a different Release is relevant (information on the applicable release in a particular context can be found in e.g. test case title, description or applicability, message description or content).

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

[2] 3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".

[3] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".

[4] 3GPP TS 34.123-3: "User Equipment (UE) conformance specification; Part 3: Abstract Test Suites (ATS)".

[5] 3GPP TS 34.229-1: "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".

[6] 3GPP TS 34.229-3: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract Test Suites (ATS)".

[7] ISO/IEC 9646-1: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[8] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[9] ETSI ETS 300 406: "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

[10] 3GPP TS 24.229: "IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

[11] Void.

[12] 3GPP TS 33.203: "Access security for IP-based services".

[13] 3GPP TS 23.221: "Architectural requirements".

[14] Void.

[15] RFC 3261: "SIP: Session Initiation Protocol".

[16] Void.

[17] 3GPP TS 24.247: "Messaging using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3".

[18] 3GPP TR 23.981: "Interworking aspects and migration scenarios for IPv4-based IP Multimedia Subsystem (IMS) implementations".

[19] 3GPP TS 24.147: "Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3".

[20] Void.

[21] Void.

[22] Void.

[23] Void.

[24] Void.

[25] Void.

[26] RFC 3312: "Integration of Resource Management and Session Initiation Protocol (SIP)".

[27] RFC 3262: "Reliability of provisional responses in Session Initiation Protocol (SIP)".

[28] Void.

[29] Void.

[30] Void.

[31] Void.

[32] Void.

[33] Void.

[34] Void.

[35] Void.

[36] Void.

[37] Void.

[38] Void.

[39] Void.

[40] Void.

[41] Void.

[42] Void.

[43] Void.

[44] Void.

[45] Void.

[46] Void.

[47] Void.

[48] Void.

[49] Void.

[50] Void.

[51] Void.

[52] Void.

[53] Void.

[54] Void.

[55] 3GPP TS 24.173: "IMS Multimedia Telephony Communication Service and supplementary services; stage 3".

[56] 3GPP TS 26.114: "IP Multimedia Subsystem (IMS); Multimedia Telephony; Media handling and interaction".

[57] Void.

[58] Void.

[59] Void.

[60] Void.

[61] Void.

[62] Void.

[63] 3GPP TS 33.222: “Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)”.

[64] 3GPP TS 24.109: “Bootstrapping interface (Ub) and network application function interface (Ua); Protocol details”.

[65] RFC 2617; “HTTP Authentication: Basic and Digest Access Authentication”.

[66] 3GPP TS 24.341: "Support of SMS over IP networks; Stage 3".

[67] Void.

[68] 3GPP TS 24.604: “Communication Diversion (CDIV) using IP Multimedia (IM)”.

[69] 3GPP TS 24.615: "Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem".

[70] 3GPP TS 36.101: “Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception”.

[71] 3GPP TR 21.904: "UE capability requirements".

[72] Void.

[73] 3GPP TS 36.523-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS)proforma specification".

[74] 3GPP2 C.S0005-E: “Upper Layer (Layer 3) Signalling Standard for cdma2000 Spread Spectrum Systems”.

[75] GSMA PRD IR.94: "IMS Profile for Conversational Video Service".

[76] 3GPP TS 23.167: "IP Multimedia Subsystem (IMS) emergency sessions".

[77] 3GPP TS 24.237: "IP Multimedia Subsystem (IMS) Service Continuity; Stage 3".

[78] 3GPP TS 34.109: "Terminal logical test interface; Special conformance testing functions".

[79] 3GPP TS 36.509: "Special conformance testing functions for User Equipment (UE)".

[80] Void.

[81] 3GPP TS 24.623: "Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating Supplementary Services".

[82] 3GPP TS 33.220: "Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture".

[83] GSMA PRD IR.92: "IMS Profile for Voice and SMS".

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

[85] 3GPP TS 24.238: "Session Initiation Protocol (SIP) based user configuration; Stage3".

[86] IETF RFC 4028 (April 2005): "Session Timers in the Session Initiation Protocol (SIP)".

[87] GSMA PRD NG.108: "IMS Profile for Voice and SMS for UE category M1".[88] IETF RFC 8147 (May 2017): "Next-Generation Pan-European eCall".

[88] FFS

[89] GSMA PRD NG.102: "IMS Profile for Converged IP Communications".

[90] 3GPP TS 24.390: " Unstructured Supplementary Service Data (USSD) using IP Multimedia (IM) Core Network (CN) subsystem IMS; Stage 3"

[91] 3GPP TS 38.101-1: "NR; User Equipment (UE) radio transmission and reception; Part 1: Range 1 Standalone"

[92] 3GPP TS 38.101-2: "NR; User Equipment (UE) radio transmission and reception; Part 2: Range 2 Standalone"

[93] 3GPP TS 38.508-2: "5GS; User Equipment (UE) conformance specification; Part 2: Common Implementation Conformance Statement (ICS) proforma specification".

[94] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".

[95] 3GPP TS 34.229-5: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 5: Protocol conformance specification using 5G System (5GS)".

[96] GSMA PRD NG.114: "IMS Profile for Voice, Video and Messaging over 5GS, Version 1.0".

[97] 3GPP TS 27.007: "AT command set for User Equipment (UE)".

[98] GSMA PRD NG.114: "IMS Profile for Voice, Video and Messaging over 5GS, Version 2.0".

# 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply, in addition to those in TR 21.905 [1]:

- terms defined in the relevant 3GPP core specifications (see normative references);

- terms defined in ISO/IEC 9646‑1 [7] and in ISO/IEC 9646‑7 [8].

In particular, the following terms defined in ISO/IEC 9646‑1 [7] apply:

**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  
The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, information object ICS, etc.

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

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 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 TR 21.905 [1].

ICS Implementation Conformance Statement

SCS System Conformance Statement

UEUT User Equipment Under Test

# 4 Recommended test case applicability

The applicability of each individual test is identified in the table 1. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of the present document.

Additional information related to the Test Case (TC), e.g. affecting its dynamic behaviour or its execution may be provided as well.

The columns in table 1 have the following meaning:

Clause

The clause column indicates the clause number in TS 34.229-1 [5] that contains the test body.

Title

The title column describes the name of the test.

Release

The release column indicates the earliest release from which each testcase is applicable, except if otherwise stated of an individual test case.

NOTE: For the IMS Emergency Service test cases, the 3GPP Release of UTRAN and GERAN is independent of that indicated in the release column.

Applicability

The following notations are used for the applicability column:

R recommended - the test case is recommended

O optional – the test case is optional

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

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

Comments

This column contains a verbal description of the condition included in the applicability column.

## 4.1 Applicabilities for test cases specified in TS 34.229-1

Table 4.1: Applicability of TS 34.229-1 tests

| Clause | Title | Release | Applicability | Comments |
| --- | --- | --- | --- | --- |
| **6** | **PDP Context Activation** |  |  |  |
| 6.2 | General Purpose PDP Context Establishment (UE Requests for a Dedicated PDP Context) | Rel-8 | C04 | UE capable of being configured to initiate Dedicated PDP Context |
| 6.3 | Dedicated PDP Context Establishment | Rel-8 | C04 | UE capable of being configured to initiate Dedicated PDP Context |
| **7** | **P-CSCF Discovery** |  |  |  |
| 7.1 | P-CSCF Discovery via PDP Context | Rel-8 | C05 | UE capable of being configured to initiate P-CSCF Discovery via PCO |
| 7.2 | P-CSCF Discovery via DHCP - IPv4 | Rel-8 | C06 | UE supports IPv4 and capable of being configured to initiate P-CSCF Discovery via DHCPv4 |
| 7.3 | P-CSCF Discovery via DHCP - IPv4 (UE Requests P-CSCF discovery via PCO) | Rel-8 | C07 | UE supports IPv4, supports P-CSCF Discovery via PCO and DHCPv4 and capable of being configured to initiate P-CSCF Discovery via PCO |
| 7.4 | P-CSCF Discovery by DHCP - IPv6 | Rel-8 | C08 | UE capable of being configured to initiate P-CSCF Discovery via DHCPv6 |
| 7.5 | P-CSCF Discovery by DHCP-IPv6 (UE Requests P-CSCF discovery by PCO) | Rel-8 | C09 | UE supports P-CSCF Discovery via PCO and DHCPv6 and capable of being configured to initiate P-CSCF Discovery via PCO |
| 7.6 | P-CSCF Discovery by DHCP - IPv6 (UE does not Request P-CSCF discovery by PCO, SS includes P-CSCF Address(es) in PCO) | Rel-8 | C10 | UE supports P-CSCF Discovery via PCO and DHCPv6 and capable of being configured to initiate P-CSCF Discovery via DHCPv6 |
| 7.7 | Void |  |  |  |
| 7.8 | Void |  |  |  |
| 7.9 | Void |  |  |  |
| **8** | **Registration** |  |  |  |
| 8.1 | Initial registration | Rel-8 | C17 | UE supports IMS security and E-UTRA and not UE category M1 |
| 8.2 | User Initiated Re-Registration | Rel-8 | C17 | UE supports IMS security and E-UTRA and not UE category M1 |
| 8.3 | Mobile Initiated Deregistration | Rel-8 | C80 | UE supports IMS security and IMS deregistration and E-UTRA and (Support of CS/PS mode 2 or Support of PS mode 2) and not UE category M1 |
| 8.4 | Invalid Behaviour - 423 Interval Too Brief | Rel-8 | C17 | UE supports IMS security and E-UTRA and not UE category M1 |
| 8.5 | Void |  |  |  |
| 8.6 | Void |  |  |  |
| 8.7 | Void |  |  |  |
| 8.8 | Void |  |  |  |
| 8.9 | Void |  |  |  |
| 8.10 | Initial registration using GIBA | Rel-8 | C18 | UE supports GIBA only and E-UTRA and not UE category M1 |
| 8.11 | Initial registration using IMS AKA and GIBA against a network with GIBA support only | Rel-8 | C19 | UE supports IMS security and GIBA and E-UTRA and not UE category M1 |
| 8.12 | User initiated re-registration using GIBA | Rel-8 | C18 | UE supports GIBA only and E-UTRA and not UE category M1 |
| 8.13 | User initiated de-registration using GIBA | Rel-8 | C18 | UE supports GIBA only and E-UTRA and not UE category M1 |
| 8.14 | Void |  |  |  |
| 8.15 | Refresh for ISIM parameters | Rel-10 | C17 | UE supports IMS security and E-UTRA and not UE category M1 |
| 8.16 | User initiated re-registration- 423 Interval Too Brief | Rel-9 | C17 | UE supports IMS security and E-UTRA and not UE category M1 |
| **9** | **Authentication** |  |  |  |
| 9.1 | Invalid Behaviour - MAC Parameter Invalid | Rel-8 | C17 | UE supports IMS security and E-UTRA and not UE category M1 |
| 9.2 | Invalid Behaviour - SQN out of range | Rel-8 | C17 | UE supports IMS security and E-UTRA and not UE category M1 |
| **10** | **Subscription** |  |  |  |
| 10.1 | Invalid Behaviour - 503 Service Unavailable | Rel-8 | C151 | E-UTRA and not UE category M1 |
| **11** | **Notification** |  |  |  |
| 11.1 | Network-initiated deregistration | Rel-8 | C151 | E-UTRA and not UE category M1 |
| 11.2 | Network initiated re-authentication | Rel-8 | C17 | UE supports IMS security and E-UTRA and not UE category M1 |
| **12** | **Call Control** |  |  |  |
| 12.1 | Void |  |  |  |
| 12.2 | MO Call with preconditions at both originating UE and terminating UE - 503 Service Unavailable | Rel-8 | C160 | UE supports MTSI and MTSI speech and initiating a session and preconditions and E-UTRA and not UE category M1 |
| 12.2a | MO Call with preconditions at both originating and terminating UE - 504 Server Time-out | Rel-8 | C160 | UE supports MTSI and MTSI speech and initiating a session and preconditions and E-UTRA and not UE category M1 |
| 12.2b | MO Call without preconditions at both originating UE and terminating UE - 503 Service Unavailable | Rel-8 | C164 | UE supports MTSI and MTSI speech and initiating a session and no preconditions and E-UTRA and not UE category M1 |
| 12.2c | MO Call without preconditions at both originating and terminating UE - 504 Server Time-out | Rel-8 | C164 | UE supports MTSI and MTSI speech and initiating a session and no preconditions and E-UTRA and not UE category M1 |
| 12.3 | Void |  |  |  |
| 12.4 | Void |  |  |  |
| 12.5 | Void |  |  |  |
| 12.6 | Void |  |  |  |
| 12.7 | Void |  |  |  |
| 12.8 | Void |  |  |  |
| 12.9 | Void |  |  |  |
| 12.10 | Void |  |  |  |
| 12.11 | Void |  |  |  |
| 12.12 | MO MTSI Voice Call Successful with preconditions at both originating UE and terminating UE | Rel-8 | C160 | UE supports MTSI and MTSI speech and initiating a session and preconditions and E-UTRA and not UE category M1 |
| 12.12a | MO MTSI Voice Call Successful without preconditions at both originating UE and terminating UE | Rel-14 | C164 | UE supports MTSI and MTSI speech and initiating a session and not preconditions and E-UTRA and not UE category M1 |
| 12.13 | MT MTSI Speech call | Rel-8 | C27 | UE supports MTSI and MTSI speech and preconditions and E-UTRA and not UE category M1 |
| 12.13a | MT MTSI speech cal with preconditions at both originating UE and terminating UEl when MO reserves resources before sending INVITE | Rel-8 | C27 | UE supports MTSI and MTSI speech and preconditions and E-UTRA and not UE category M1 |
| 12.13b | MT MTSI Speech call Successful without preconditions at both originating UE and terminating UE | Rel-8 | C165 | UE supports MTSI and MTSI speech and E-UTRA and not preconditions and not UE category M1 |
| 12.13c | MT MTSI speech call Successful with preconditions at originating UE and without preconditions at terminating UE | Rel-14 | C165 | UE supports MTSI and MTSI speech and E-UTRA and not preconditions and not UE category M1 |
| 12.15 | Void |  |  |  |
| 12.16 | Void |  |  |  |
| 12.17 | Void |  |  |  |
| 12.18 | Void |  |  |  |
| 12.18a | Void |  |  |  |
| 12.18b | Void |  |  |  |
| 12.19 | Void |  |  |  |
| 12.19a | Void |  |  |  |
| 12.19b | Void |  |  |  |
| 12.20 | Void |  |  |  |
| 12.20a | Void |  |  |  |
| 12.21 | MO MTSI Video call | Rel-8 | C71 | UE supports MTSI and initiating a session and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and preconditions and E-UTRA and not UE category M1 |
| 12.22 | MT MTSI Video call | Rel-8 | C70 | UE supports MTSI and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and preconditions and E-UTRA and not UE category M1 |
| 12.23 | MO MTSI speech call / EVS | Rel-12 | C83 | UE supports MTSI and MTSI speech EVS (see NOTE 3 below) and preconditions and E-UTRA and not UE category M1 |
| 12.24 | MT MTSI speech call / EVS | Rel-12 | C83 | UE supports MTSI and MTSI speech EVS (see NOTE 3 below) and preconditions and E-UTRA and not UE category M1 |
| 12.25 | MO MTSI speech call / EVS offered but not supported by remote UE / AMR-WB agreed | Rel-12 | C83 | UE supports MTSI and MTSI speech EVS (see NOTE 3 below) and preconditions and E-UTRA and not UE category M1 |
| 12.25a | MT MTSI speech call / EVS offered but not supported by UE / AMR-WB agreed | Rel-8 | C167 | MTSI and MTSI speech and MTSI speech, AMR wideband and not MTSI speech, EVS and preconditions and E-UTRA and not UE category M1 |
| 12.26 | MT MTSI speech call / EVS / AMR-WB IO mode | Rel-12 | C83 | UE supports MTSI and MTSI speech EVS (see NOTE 3 below) and preconditions and E-UTRA and not UE category M1 |
| 12.27 | MO MTSI speech call / SRVCC on MT side / Codec Change from AMR-WB to AMR-NB | Rel-8 | C160 | UE supports MTSI and MTSI speech and initiating a session and preconditions and E-UTRA and not UE category M1 |
| 12.27a | MO MTSI speech call / SRVCC on MT side / Codec Change from EVS to AMR-NB | Rel-12 | C83 | UE supports MTSI and MTSI speech EVS (see NOTE 3 below) and preconditions and E-UTRA and not UE category M1 |
| 12.28 | MO MTSI speech call / MO UE cancels call establishment | Rel-8 | C160 | UE supports MTSI and MTSI speech and initiating a session and preconditions and E-UTRA and not UE category M1 |
| 12.29 | MO MTSI Video call / MO UE cancels call establishment | Rel-8 | C71 | UE supports MTSI and initiating a session and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and preconditions and E-UTRA and not UE category M1 |
| 13 | SIP Compression (SigComp) |  |  |  |
| 13.1 | SigComp in the Initial registration | FFS | C58 | UE supports IMS security and Indicate Sigcomp |
| 13.2 | SigComp in the MO Call | FFS | FFS | FFS (see NOTE 1 below) |
| 13.3 | SigComp in the MT Call | FFS | FFS | FFS (see NOTE 1 below) |
| 13.4 | Void |  |  |  |
| **14** | **Emergency Service** |  |  |  |
| 14.1 | Void |  |  |  |
| 14.2 | Void |  |  |  |
| **15** | **Supplementary Services** |  |  |  |
| 15.1 | Originating Identification Presentation | Rel-8 | C43 | UE supports MTSI and MTSI Originating Identification Presentation and (GBA or HTTP Digest) for XCAP authentication (NOTE 4) and E-UTRA and not UE category M1 |
| 15.2 | Originating Identification Restriction | Rel-8 | C88 | UE supports MTSI and MTSI Originating Identification Restriction - Configuration and (GBA or HTTP Digest) (NOTE 5) and E-UTRA and not UE category M1 |
| 15.2a | Originating Identification Restriction / Signalling | Rel-8 | C44 | UE supports MTSI and MTSI Originating Identification Restriction and preconditions and E-UTRA and not UE category M1 |
| 15.3 | Terminating Identification Presentation | Rel-8 | C48 | UE supports MTSI and MTSI Terminating Identification Presentation and (GBA or HTTP Digest) (NOTE 5) and E-UTRA and not UE category M1 |
| 15.4 | Terminating Identification Restriction | Rel-8 | C89 | UE supports MTSI and MTSI Terminating Identification Restriction - Configuration and (GBA or HTTP Digest) (NOTE 4) and E-UTRA and not UE category M1 |
| 15.4a | Terminating Identification Restriction / Signalling | Rel-8 | C49 | UE supports MTSI and MTSI Terminating Identification Restriction and preconditions and E-UTRA and not UE category M1 |
| 15.5 | Communication Forwarding unconditional | Rel-8 | C30 | UE supports MTSI and MTSI Communication Diversion and (GBA or HTTP Digest) (NOTE 5) and E-UTRA and not UE category M1 |
| 15.6 | Void |  |  |  |
| 15.7 | Communication Forwarding on non Reply: activation | Rel-8 | C30 | UE supports MTSI and MTSI Communication Diversion and (GBA or HTTP Digest) (NOTE 5) and E-UTRA and not UE category M1 |
| 15.8 | Communication Forwarding on non reply: MO call initiation | Rel-8 | C31 | UE supports MTSI and MTSI speech and MTSI Communication Diversion and preconditions and E-UTRA and not UE category M1 |
| 15.9 | Communication Forwarding on Busy | Rel-8 | C30 | UE supports MTSI and MTSI Communication Diversion and (GBA or HTTP Digest) (NOTE 5) and E-UTRA and not UE category M1 |
| 15.10 | Communication Forwarding on Not logged-in | Rel-8 | C30 | UE supports MTSI and MTSI Communication Diversion and (GBA or HTTP Digest) (NOTE 4) and E-UTRA and not UE category M1 |
| 15.10a | Communication Forwarding on Not reachable | Rel-8 | C30 | UE supports MTSI and MTSI Communication Diversion and (GBA or HTTP Digest) (NOTE 5) and E-UTRA and not UE category M1 |
| 15.11 | MO Call Hold without announcement | Rel-8 | C23 | UE supports MTSI and MTSI speech and MTSI Communication Hold and preconditions and E-UTRA and not UE category M1 |
| 15.11a | MO Video Call Hold without announcement | Rel-8 | C77 | UE supports MTSI and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and MTSI Communication Hold and preconditions and E-UTRA and not UE category M1 |
| 15.12 | MT Call Hold without announcement | Rel-8 | C23 | UE supports MTSI and MTSI speech and MTSI Communication Hold and preconditions and E-UTRA and not UE category M1 |
| 15.12a | MT Video Call Hold without announcement | Rel-8 | C77 | UE supports MTSI and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and MTSI Communication Hold and preconditions and E-UTRA and not UE category M1 |
| 15.13 | Incoming Communication Barring except for a specific user | Rel-8 | C24 | UE supports MTSI and MTSI Communication Barring and (GBA or HTTP Digest) (NOTE 5) and E-UTRA and not UE category M1 |
| 15.14 | Incoming Communication Barring for anonymous users | Rel-8 | C45 | UE supports MTSI and MTSI Communication Barring and MTSI Anonymous Communication Rejection and (GBA or HTTP Digest) (NOTE 5) and E-UTRA and not UE category M1 |
| 15.14a | Incoming Communication Barring while roaming | Rel-8 | C24 | UE supports MTSI and MTSI Incoming Communication Barring and (GBA or HTTP Digest) (NOTE 5) and E-UTRA and not UE category M1 |
| 15.14b | Outgoing Communication Barring while roaming | Rel-8 | C84 | UE supports MTSI and MTSI Outgoing Communication Barring and (GBA or HTTP Digest) (NOTE 4) and E-UTRA and not UE category M1 |
| 15.15 | Subscription to the MWI event package | Rel-8 | C50 | UE supports MTSI and MTSI Message Waiting Indication and E-UTRA and not UE category M1 |
| 15.17 | Creating and leaving a conference | Rel-8 | C32 | UE supports MTSI and MTSI speech and MTSI Conference and preconditions and E-UTRA and not UE category M1 |
| 15.18 | Inviting user to conference by sending a REFER request to the user | Rel-8 | C32 | UE supports MTSI and MTSI speech and MTSI Conference and preconditions and E-UTRA and not UE category M1 |
| 15.19 | Inviting user to conference by sending a REFER request to the conference focus | Rel-8 | C32 | UE supports MTSI and MTSI speech and MTSI Conference and preconditions and E-UTRA and not UE category M1 |
| 15.19a | Inviting user to conference by sending a REFER request to the conference focus / Video | Rel-8 | C78 | UE supports MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and MTSI Conference and preconditions and E-UTRA and not UE category M1 |
| 15.21 | Void |  |  |  |
| 15.21a | Three way session creation | Rel-8 | C61 | UE supports MTSI and MTSI Conference and MTSI three way session and preconditions and E-UTRA and not UE category M1 |
| 15.21b | Void |  |  |  |
| 15.21c | Three way session creation / Video | Rel-8 | C79 | UE supports MTSI and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and MTSI Conference and MTSI three way session and preconditions and E-UTRA and not UE category M1 |
| 15.23 | Void |  |  |  |
| 15.24 | Void |  |  |  |
| 15.25 | MO Explicit Communication Transfer - Consultative Call Transfer | Rel-8 | C29 | UE supports MTSI and MTSI speech and MTSI Explicit Communication Transfer - consultative transfer and preconditions and E-UTRA and not UE category M1 |
| 15.26 | Void |  |  |  |
| 15.27 | Communication Waiting and answering the call | Rel-8 | C57 | UE supports MTSI and MTSI speech and MTSI Communication Waiting and preconditions and E-UTRA and not UE category M1 |
| 15.28 | Communication Waiting and cancelling the call | Rel-8 | C57 | UE supports MTSI and MTSI speech and MTSI Communication Waiting and preconditions and E-UTRA and not UE category M1 |
| 15.29 | GBA authentication | Rel-8 | C81 | UE supports MTSI and MTSI Originating Identification Presentation and GBA for XCAP authentication and E-UTRA and not UE category M1. |
| 15.30 | User initiated USSI | Rel-12 | C159 | UE supports MTSI and MTSI speech and initiating a session and E-UTRA and USSI and not UE category M1 |
| **16** | **Codec selecting** |  |  |  |
| 16.1 | Void |  |  |  |
| 16.2 | Speech AMR, indicate selective codec modes | Rel-8 | C27 | UE supports MTSI and MTSI speech and preconditions and E-UTRA and not UE category M1 |
| 16.3 | Speech AMR-WB, indicate all codec modes | Rel-8 | C28 | UE supports MTSI and MTSI speech and MTSI speech, AMR wideband and preconditions and E-UTRA and not UE category M1 |
| 16.4 | Speech AMR-WB, indicate selective codec modes | Rel-8 | C28 | UE supports MTSI and MTSI speech and MTSI speech, AMR wideband and preconditions and E-UTRA and not UE category M1 |
| 16.5 | Void |  |  |  |
| 16.6 | Void |  |  |  |
| 16.7 | Void |  |  |  |
| 16.8 | Void |  |  |  |
| 16.10 | Void |  |  |  |
| 16.11 | Void |  |  |  |
| 16.12 | Void |  |  |  |
| 16.13 | Void |  |  |  |
| **17** | **Media use cases** |  |  |  |
| 17.1 | MO Speech, add video remove video | Rel-8 | C71 | UE supports MTSI and initiating a session and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and preconditions and E-UTRA and not UE category M1 |
| 17.2 | MT Speech, add video remove video | Rel-8 | C70 | UE supports MTSI and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and preconditions and E-UTRA and not UE category M1 |
| 17.4 | Void |  |  |  |
| 17.5 | Void |  |  |  |
| 17.6 | Void |  |  |  |
| 17.8 | Void |  |  |  |
| 17.10 | Void |  |  |  |
| 17.12 | Void |  |  |  |
| 17.14 | Void |  |  |  |
| 17.16 | Void |  |  |  |
| 17.17 | Void |  |  |  |
| 17.18 | Void |  |  |  |
| **18** | **SMS over IMS** |  |  |  |
| 18.1 | Mobile Originating SMS | Rel-8 | C55 | UE supports MO SMS over IMS and E-UTRA and UE configured to use SMS over IP and UE is not category M1 |
| 18.1a | Mobile Originating Concatenated SMS | Rel-8 | C168 | UE supports concatenated SM-over-IP sender and E-UTRA and UE is not category M1 |
| 18.1b | Mobile Originating SMS / RP-ERROR | Rel-8 | C55 | UE supports MO SMS over IMS and E-UTRA and UE configured to use SMS over IP and UE is not category M1 |
| 18.2 | Mobile Terminating SMS | Rel-8 | C56 | UE supports SM-over-IP receiver and E-UTRA and UE configured to use SMS over IP and UE is not category M1 |
| 18.2a | Mobile Terminating Concatenated SMS | Rel-8 | C169 | UE supports concatenated SM-over-IP receiver and E-UTRA and UE is not category M1 |
| **19** | **Emergency Service** |  |  |  |
| 19.1.1 | Emergency call with emergency registration / Success / Location information available | Rel-9 | C76 | UE supports EPS IMS emergency call and is capable of obtaining location information and E-UTRA and not UE category M1 |
| 19.1.2 | Emergency call with emergency registration / Success / Location information not available | Rel-9 | C59 | UE supports EPS IMS emergency call and E-UTRA and not UE category M1 |
| 19.1.3 | Emergency call with emergency registration / Abnormal case / IM CN sends a 380 / UE performs emergency call via CS domain / UTRAN or GERAN | Rel-9 | C62 | UE supports EPS IMS emergency call and Emergency speech call and (UTRAN or GERAN) (NOTE 2, 6) |
| 19.1.3a | Emergency call with emergency registration / Abnormal case / IM CN sends a 380 / UE performs emergency call via CS domain / CDMA 2000 1xRTT | Rel-9 | C74 | UE supports EPS IMS emergency call and Emergency speech call and 1XRTT (NOTE 2) |
| 19.1.3b | Void |  |  |  |
| 19.1.3c | Emergency call with emergency registration / Abnormal case / IM CN sends 503 Service Unavailable / UE performs emergency call via CS domain / UTRAN or GERAN | Rel-9 | C62 | UE supports EPS IMS emergency call and Emergency speech call and (UTRAN or GERAN) (NOTE 6) |
| 19.1.4 | Void |  |  |  |
| 19.1.5 | Emergency call with emergency registration / Emergency SIP signalling and media in parallel with an other ongoing IM CN subsystem signalling and media | Rel-9 | C72 | UE supports MTSI and MTSI speech and EPS IMS emergency call and Communication Hold during emergency call and preconditions and E-UTRA and not UE category M1 |
| 19.1.6 | Emergency call with emergency registration / Success / GIBA against a network with GIBA support only | Rel-9 | C124 | UE supports IMS security and GIBA and EPS IMS emergency call and E-UTRA and not UE category M1 |
| 19.3.1 | Non-UE detectable emergency call / IM CN sends a 1xx response / UE geographical location information available or not | Rel-9 | C73 | UE supports EPS IMS emergency call and MTSI and MTSI speech and preconditions and E-UTRA and not UE category M1 |
| 19.3.2 | Non-UE detectable emergency call / IM CN sends 380 Alternative Service including emergency service URN and no emergency subservice type / Non-emergency IMS registration / UTRAN or GERAN | Rel-9 | C66 | UE supports MTSI and MTSI Speech and EPS IMS emergency call and (UTRAN or GERAN) (NOTE 2, 6) |
| 19.3.2a | Non-UE detectable emergency call / IM CN sends 380 Alternative Service / Non-emergency IMS registration / CDMA 2000 1xRTT | Rel-9 | C75 | UE supports initiating bidirectional voice session over IMS and MTSI Speech and IMS emergency call and emergency call over 1XRTT (NOTE 2) |
| 19.3.2b | Non-UE detectable emergency call / IM CN sends a 380 with unavailable emergency service URN / UE performs normal call via CS domain / UTRAN or GERAN | Rel-9 | C66 | UE supports MTSI and MTSI Speech and EPS IMS emergency call and emergency call and (UTRAN or GERAN) (NOTE 6) |
| 19.3.2c | Non-UE detectable emergency call / IM CN sends a 380 with available emergency service URN / UE performs CS Emergency call via CS domain / UTRAN or GERAN | Rel-9 | C66 | UE supports MTSI and MTSI Speech and EPS IMS emergency call and emergency call and (UTRAN or GERAN) (NOTE 6) |
| 19.3.3 | Non-UE detectable emergency call / IM CN sends 380 Alternative Service / Emergency IMS registration | Rel-9 | C73 | UE supports EPS IMS emergency call and MTSI and MTSI speech and E-UTRA and not UE category M1 |
| 19.3.4 | Non-UE detectable emergency call / IM CN sends 380 with an Alternative Service / Previous emergency IMS registration not expired | Rel-9 | C73 | UE supports EPS IMS emergency call and MTSI and MTSI speech and E-UTRA and not UE category M1 |
| 19.4.1 | Emergency call without emergency registration / EPS / UE does not contain an ISIM or USIM | Rel-9 | C162 | UE supports EPS IMS emergency call and E-UTRA and not UE category M1 and no USIM test execution |
| 19.4.2 | Emergency call without emergency registration / EPS / UE contains an ISIM or USIM / UE is in state EMM-REGISTERED.LIMITED-SERVICE | Rel-9 | C64 | UE supports EPS IMS emergency call and E-UTRA and not UE category M1 |
| 19.4.3 | Void |  |  |  |
| 19.4.4 | Void |  |  |  |
| 19.4.5 | Emergency call without emergency registration / UE credentials are not accepted | Rel-9 | C59 | UE supports EPS IMS emergency call and E-UTRA and not UE category M1 |
| 19.4.6 | Emergency call without emergency registration / Failure of registration / Rejected by 403 (Forbidden) | Rel-9 | C125 | UE supports IMS emergency service and IMS emergency call without registration after rejection of emergency registration and E-UTRA and not UE category M1 |
| 19.4.7 | Emergency call without emergency registration / Failure of registration / against a network with GIBA support only | Rel-9 | C134 | UE supports EPS IMS emergency call and IMS emergency call without registration after rejection of emergency registration that used IMS security. The UE does not support GIBA. UE supports IMS security and E-UTRA and not UE category M1 |
| 19.5.1 | New initial emergency registration / UE obtains from the serving IP-CAN an IP address different than the IP address used for the emergency registration | Rel-9 | C59 | UE supports EPS IMS emergency call and E-UTRA and not UE category M1 |
| 19.5.6 | User-initiated emergency reregistration / UE has emergency related ongoing dialog | Rel-9 | C59 | UE supports EPS IMS emergency call and E-UTRA and not UE category M1 |
| 19.5.7 | User-initiated emergency reregistration / The user initiates an emergency call | Rel-9 | C59 | UE supports EPS IMS emergency call and E-UTRA and not UE category M1 |
| 19.5.8 | Void |  |  |  |
| 19.5.9 | In parallel emergency and non-emergency registrations | Rel-9 | C59 | UE supports EPS IMS emergency call and E-UTRA and not UE category M1 |
| 19.5.10 | Deregistration upon emergency registration expiration | Rel-9 | C59 | UE supports EPS IMS emergency call and E-UTRA and not UE category M1 |
| **20** | **Customized Alerting Tones (CAT)** |  |  |  |
| 20.1 | Mobile Originating CAT - Forking Model | Rel-8 | C82 | UE supports MTSI and MTSI speech and early media and preconditions and E-UTRA and not UE category M1 |
| **21** | **eCall over IMS (eCall)** |  |  |  |
| 21.1 | eCall over IMS / Manual initiation / Normal registration / Emergency registration / Success / 200 OK with ACK | Rel-14 | C147 | UE supports IMS eCall type of emergency services over EPS and Manual type of eCall (NOTE 7) |
| 21.2 | eCall over IMS / Automatic initiation / Normal registration / Emergency registration / Success / 200 OK with ACK | Rel-14 | C148 | UE supports IMS eCall type of emergency services over EPS and Automatic type of eCall (NOTE 7) |
| 21.3 | eCall over IMS / Manual initiation / MSD transfer Failure / UE performs eCall in CS domain after Timer expiry / UTRAN or GERAN | Rel-14 | C147 | UE supports IMS eCall type of emergency services over EPS and manual type of eCall (NOTE 7) |
| 21.4 | eCall over IMS / Manual initiation / MSD transfer and 200 OK with ACK / SIP INFO request for MSD Update / Success | Rel-14 | C147 | UE supports IMS eCall type of emergency services over EPS and Manual type of eCall (NOTE 7) |
| 21.5 | eCall over IMS / Automatic initiation / MSD transfer and 200 OK with ACK / SIP INFO request for MSD Update / Success | Rel-14 | C148 | UE supports IMS eCall type of emergency services over EPS and Automatic type of eCall (NOTE 7) |
| 21.6 | eCall over IMS / Automatic initiation / MSD transfer and 200 OK with ACK / SIP INFO request for unsupported MSD / UE indicates unsuccessful in SIP INFO | Rel-14 | C148 | UE supports IMS eCall type of emergency services over EPS and Automatic type of eCall (NOTE 7) |
| 21.13 | 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 | Rel-14 | C149 | UE supports IMS eCall Only type of emergency services over EPS and manual type of call (NOTE 7) |
| 21.14 | eCall only mode / Automatic initiation / Emergency registration / Abnormal case / IM CN sends a 486 (Busy Here) / UE performs eCall in CS domain / UTRAN or GERAN | Rel-14 | C150 | UE supports IMS eCall Only type of emergency services over EPS and Automatic type of eCall (NOTE 7) |
| 21.15 | eCall only mode / Manual initiation / Emergency registration / Abnormal case / IM CN sends a 600 (Busy Everywhere) / UE performs eCall in CS domain / UTRAN or GERAN | Rel-14 | C149 | UE supports IMS eCall Only type of emergency services over EPS and manual type of call (NOTE 7) |
| 21.16 | 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 | Rel-14 | C150 | UE supports IMS eCall Only type of emergency services over EPS and Automatic type of eCall (NOTE 7) |
| 21.17 | eCall only mode / Manual initiation / Emergency registration / Abnormal case / IM CN sends a 603 (Decline) / UE performs eCall in CS domain / UTRAN or GERAN | Rel-14 | C149 | UE supports IMS eCall Only type of emergency services over EPS and manual type of call (NOTE 7) |
| 21.18 | eCall only mode / Automatic initiation / Emergency registration / Abnormal case / IM CN sends a 603 (Decline) / UE performs eCall in CS domain / UTRAN or GERAN | Rel-14 | C150 | UE supports IMS eCall Only type of emergency services over EPS and Automatic type of eCall (NOTE 7) |
| **22** | **Session Timer** |  |  |  |
| 22.1 | MO Call – UE is able to refresh the session | Rel-8 | C157 | UE supports MTSI and MTSI speech and initiating a session and preconditions and E-UTRA and not UE category M1 and Session Timer |
| 22.2 | MO Call – Remote end is refresher | Rel-8 | C157 | UE supports MTSI and MTSI speech and initiating a session and preconditions and E-UTRA and not UE category M1 and Session Timer |
| 22.3 | MO Call – Remote end does not support Session Timer | Rel-8 | C157 | UE supports MTSI and MTSI speech and initiating a session and preconditions and E-UTRA and not UE category M1 and Session Timer |
| 22.4 | MO Call – Remote end seems oblivious to Session Timer parameters | Rel-8 | C157 | UE supports MTSI and MTSI speech and initiating a session and preconditions and E-UTRA and not UE category M1 and Session Timer |
| 22.5 | MT Call – Remote end does not send Session-Expires | Rel-8 | C158 | UE supports MTSI and MTSI speech and preconditions and E-UTRA and not UE category M1 and Session Timer |
| 22.6 | MT Call – Remote end sends Session-Expires but does not choose refresher | Rel-8 | C158 | UE supports MTSI and MTSI speech and preconditions and E-UTRA and not UE category M1 and Session Timer |
| 22.7 | MT Call – Remote end chooses UE as refresher | Rel-8 | C158 | UE supports MTSI and MTSI speech and preconditions and E-UTRA and not UE category M1 and Session Timer |
| 22.8 | MT Call – Remote end does not support Session Timer | Rel-8 | C158 | UE supports MTSI and MTSI speech and preconditions and E-UTRA and not UE category M1 and Session Timer |
| **G.8** | **Registration / WLAN** |  |  |  |
| G.8.1 | Initial Registration / WLAN | Rel-11 | C108 | UE supports MTSI and WLAN |
| **G.12** | **Call Control / WLAN** |  |  |  |
| G.12.1 | MO MTSI speech call / WLAN | Rel-11 | C152 | UE supports MTSI and MTSI speech and preconditions and WLAN |
| G.12.2 | MT MTSI speech call / WLAN | Rel-11 | C152 | UE supports MTSI and MTSI speech and preconditions and WLAN |
| G.12.3 | MO MTSI video call / WLAN | Rel-11 | C153 | UE supports MTSI and MTSI speech and MTSI video and preconditions and WLAN |
| G.12.4 | MT MTSI video call / WLAN | Rel-11 | C153 | UE supports MTSI and MTSI speech and MTSI video and preconditions and WLAN |
| **G.15** | **Supplementary Services / WLAN** |  |  |  |
| G.15.1 | Originating Identification Presentation / WLAN | Rel-11 | C92 | UE supports MTSI and MTSI Originating Identification Presentation and WLAN |
| G.15.2 | Originating Identification Restriction / Signalling / WLAN | Rel-11 | C93 | UE supports MTSI and MTSI Originating Identification Restriction and preconditions and WLAN |
| G.15.3 | Terminating Identification Presentation / WLAN | Rel-11 | C94 | UE supports MTSI and MTSI Terminating Identification Presentation and WLAN |
| G.15.4 | Terminating Identification Restriction / Signalling / WLAN | Rel-11 | C95 | UE supports MTSI and MTSI Terminating Identification Restriction and preconditions and WLAN |
| G.15.5 | Communication Forwarding unconditional / WLAN | Rel-11 | C101 | UE supports MTSI and MTSI Communication Diversion and WLAN |
| G.15.6 | Communication Forwarding on non Reply: activation / WLAN | Rel-11 | C101 | UE supports MTSI and MTSI Communication Diversion and WLAN |
| G.15.7 | Communication Forwarding on non reply: MO call initiation / WLAN | Rel-11 | C102 | UE supports MTSI and MTSI speech and MTSI Communication Diversion and preconditions and WLAN |
| G.15.8 | Communication Forwarding on Busy / WLAN | Rel-11 | C101 | UE supports MTSI and MTSI Communication Diversion and WLAN |
| G.15.9 | Communication Forwarding on Not logged-in / WLAN | Rel-11 | C101 | UE supports MTSI and MTSI Communication Diversion and WLAN |
| G.15.10 | Communication Forwarding on Not reachable / | Rel-11 | C101 | UE supports MTSI and MTSI Communication Diversion and WLAN |
| G.15.11 | MO Call Hold without announcement / WLAN | Rel-11 | C109 | UE supports MTSI and MTSI speech and MTSI Communication Hold and preconditions and WLAN |
| G.15.12 | MT Call Hold without announcement / WLAN | Rel-11 | C109 | UE supports MTSI and MTSI speech and Communication Hold and preconditions and WLAN |
| G.15.13 | MO video Call Hold without announcement / WLAN | Rel-11 | C110 | UE supports MTSI and MTSI speech and MTSI video and MTSI Communication Hold and preconditions and WLAN |
| G.15.14 | MT video Call Hold without announcement / WLAN | Rel-11 | C110 | UE supports MTSI and MTSI speech and MTSI video and MTSI Communication Hold and preconditions and WLAN |
| G.15.15 | Incoming Communication Barring while roaming / WLAN | Rel-11 | C111 | UE supports MTSI and MTSI Incoming Communication Barring and WLAN and (GBA or HTTP Digest) (NOTE 4) |
| G.15.16 | Outgoing Communication Barring while roaming / WLAN | Rel-11 | C112 | UE supports MTSI and Outgoing Communication Barring and WLAN and (GBA or HTTP Digest) (NOTE 4) |
| G.15.17 | Subscription to the MWI event package / WLAN | Rel-11 | C113 | UE supports MTSI and MTSI Message Waiting Indication and WLAN |
| G.15.18 | Inviting user to conference by sending a REFER request to the conference focus / WLAN | Rel-11 | C114 | UE supports MTSI and MTSI speech and MTSI Conference and preconditions and WLAN |
| G.15.19 | Void |  |  |  |
| G.15.20 | Three way session creation / WLAN | Rel-11 | C116 | UE supports MTSI and MTSI speech and MTSI Conference and MTSI three way session and preconditions and WLAN |
| G.15.21 | Inviting user to conference by sending a REFER request to the conference focus for video / WLAN | Rel-11 | C117 | UE supports MTSI and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and MTSI Conference and preconditions and WLAN |
| G.15.22 | Void |  |  |  |
| G.15.23 | Three way session creation for video / WLAN | Rel-11 | C119 | UE supports MTSI and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and MTSI Conference and MTSI three way session and preconditions and WLAN |
| G.15.24 | Communication Waiting and answering the call / WLAN | Rel-11 | C120 | UE supports MTSI and MTSI speech and MTSI Communication Waiting and preconditions and WLAN |
| G.15.25 | Communication Waiting and cancelling the call / WLAN | Rel-11 | C120 | UE supports MTSI and MTSI speech and MTSI Communication Waiting and preconditions and WLAN |
| **G.17** | **Media use cases / WLAN** |  |  |  |
| G.17.1 | MO Speech, add video remove video / WLAN | Rel-11 | C106 | UE supports MTSI and initiating a session and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and preconditions and WLAN |
| G.17.2 | MT Speech, add video remove video / WLAN | Rel-11 | C107 | UE supports MTSI and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and preconditions and WLAN |
| **G.19** | **Emergency Service over IMS / WLAN** |  |  |  |
| G.19.1 | Emergency call with emergency registration / WLAN | Rel-11 | C121 | UE supports IMS emergency call over WLAN and WLAN |
| **H.8** | **Registration / Fixed Broadband Access** |  |  |  |
| H.8.1 | Initial registration / Fixed Broadband Access | Rel-12 | C90 | UE supports SIP Digest without TLS and Fixed Broadband |
| H.8.2 | User Initiated Re-Registration / Fixed Broadband Access | Rel-12 | C90 | UE supports SIP Digest without TLS and Fixed Broadband |
| H.8.3 | User Initiated Deregistration / Fixed Broadband Access | Rel-12 | C100 | UE supports SIP Digest without TLS and Fixed Broadband and IMS deregistration |
| H.8.4 | Invalid behaviour- 423 Interval too brief / Fixed Broadband Access | Rel-12 | C90 | UE supports SIP Digest without TLS and Fixed Broadband |
| H.8.5 | User initiated re-registration - 423 Interval Too Brief / Fixed Broadband Access | Rel-12 | C90 | UE supports SIP Digest without TLS and Fixed Broadband |
| **H.9** | **Authentication / Fixed Broadband Access** |  |  |  |
| H.9.1 | SIP digest without TLS - abnormal procedures - 403 Forbidden / Fixed Broadband Access | Rel-12 | C90 | UE supports SIP Digest without TLS and Fixed Broadband |
| **H.11** | **Notification / Fixed Broadband Access** |  |  |  |
| H.11.2 | Network initiated re-authentication / Fixed Broadband Access | Rel-12 | C90 | UE supports SIP Digest without TLS and Fixed Broadband |
| **H.12** | **Call Control / Fixed Broadband Access** |  |  |  |
| H.12.1 | Originating - 503 Service Unavailable / Fixed Broadband Access | Rel-12 | C91 | UE supports MTSI and MTSI speech and SIP Digest without TLS and no preconditions and Fixed Broadband |
| H.12.2 | Originating - 504 Server Time-out / Fixed Broadband Access | Rel-12 | C161 | UE supports MTSI and MTSI speech and SIP Digest without TLS and preconditions and Fixed Broadband |
| H.12.3 | Originating MTSI Voice Call Successful with preconditions / Fixed Broadband Access | Rel-12 | C161 | UE supports MTSI and MTSI speech and SIP Digest without TLS and preconditions and Fixed Broadband |
| H.12.4 | Originating MTSI Voice Call Successful without preconditions / Fixed Broadband Access | Rel-12 | C105 | UE supports MTSI and MTSI speech and SIP Digest without TLS and no preconditions and Fixed Broadband |
| H.12.5 | Terminating MTSI Voice call with preconditions / Fixed Broadband Access | Rel-12 | C161 | UE supports MTSI and MTSI speech and SIP Digest without TLS and preconditions and Fixed Broadband |
| H.12.6 | Terminating MTSI voice call without preconditions / Fixed Broadband Access | Rel-12 | C105 | UE supports MTSI and MTSI speech and SIP Digest without TLS and no preconditions and Fixed Broadband |
| H.12.7 | Originating MTSI Video call without preconditions / Fixed Broadband Access | Rel-12 | C122 | UE supports MTSI and MTSI speech and video and SIP Digest without TLS and no preconditions and Fixed Broadband |
| H.12.8 | Terminating MTSI Video call without preconditions / Fixed Broadband Access | Rel-12 | C122 | UE supports MTSI and MTSI speech and video and SIP Digest without TLS and no preconditions and Fixed Broadband |
| **H.15** | **Supplementary Services / Fixed Broadband Access** |  |  |  |
|  | | | | |
| H.15.1 | Originating Identification Presentation / Fixed Broadband Access | Rel-12 | C96 | UE supports MTSI and MTSI Originating Identification Presentation and Fixed Broadband |
| H.15.2 | Originating Identification Restriction / Signalling / Fixed Broadband Access | Rel-12 | C97 | UE supports MTSI and MTSI Originating Identification Restriction and preconditions and Fixed Broadband |
| H.15.3 | Terminating Identification Presentation / Fixed Broadband Access | Rel-12 | C98 | UE supports MTSI and MTSI Terminating Identification Presentation and Fixed Broadband |
| H.15.4 | Terminating Identification Restriction / Signalling / Fixed Broadband Access | Rel-12 | C99 | UE supports MTSI and MTSI Terminating Identification Restriction and no preconditions and Fixed Broadband |
| H.15.5 | Communication Forwarding unconditional / Fixed Broadband Access | Rel-12 | C103 | UE supports MTSI and MTSI Communication Diversion and Fixed Broadband |
| H.15.6 | Communication Forwarding on non Reply: activation / Fixed Broadband Access | Rel-12 | C103 | UE supports MTSI and MTSI Communication Diversion and Fixed Broadband |
| H.15.7 | Communication Forwarding on non reply: Originating call initiation / Fixed Broadband Access | Rel-12 | C104 | UE supports MTSI and MTSI speech and MTSI Communication Diversion and no preconditions and Fixed Broadband |
| H.15.8 | Communication Forwarding on Busy / Fixed Broadband Access | Rel-12 | C103 | UE supports MTSI and MTSI Communication Diversion and Fixed Broadband |
| H.15.9 | Communication Forwarding on Not logged-in / Fixed Broadband | Rel-12 | C103 | UE supports MTSI and MTSI Communication Diversion and Fixed Broadband |
| H.15.10 | Communication Forwarding on Not reachable / Fixed Broadband | Rel-12 | C103 | UE supports MTSI and MTSI Communication Diversion and Fixed Broadband |
| H.15.11 | Self-Configuration via SIP based procedure / Fixed Broadband Access | Rel-12 | C123 | UE supports MTSI and MTSI Communication Diversion and SIP-based configuration and Fixed Broadband |
| **H.17** | **Media use cases / Fixed Broadband Access** |  |  |  |
| H.17.1 | Originating Voice, add video remove video / Fixed Broadband Access | Rel-12 | C122 | UE supports MTSI and MTSI speech and MTSI video and SIP Digest without TLS and no preconditions and Fixed Broadband |
| H.17.2 | Terminating Voice, add video remove video / Fixed Broadband Access | Rel-12 | C122 | UE supports MTSI and MTSI speech and MTSI video and SIP Digest without TLS and no preconditions and Fixed Broadband |
| **I.8** | **RCS** |  |  |  |
| I.8.1a | Initial Registration / single / E-UTRA | n/a | C135 | UE supports combined registration over E-UTRA |
| I.8.1b | Initial Registration / dual / E-UTRA | n/a | C136 | UE supports registration to two IMS core networks over E-UTRA |
| I.8.1c | Initial Registration / single / WLAN | n/a | C137 | UE supports combined registration over WLAN |
| I.8.1d | Initial Registration / dual / WLAN | n/a | C138 | UE supports registration to two IMS core networks over WLAN |
| I.12.1a | MO voice call / single / E-UTRA | n/a | C139 | UE supports voice call after combined registration over E-UTRA |
| I.12.1b | MO voice call / dual / E-UTRA | n/a | C140 | UE supports voice call after dual registration over E-UTRA |
| I.12.1c | MO voice call / single / WLAN | n/a | C141 | UE supports voice call after combined registration over WLAN |
| I.12.1d | MO voice call / dual / WLAN | n/a | C142 | UE supports voice call after dual registration over WLAN |
| I.12.2a | RCS chat / single / E-UTRA | n/a | C143 | UE supports RCS chat after combined registration over E-UTRA |
| I.12.2b | RCS chat / dual / E-UTRA | n/a | C144 | UE supports RCS chat after dual registration over E-UTRA |
| I.12.2c | RCS chat / single / WLAN | n/a | C145 | UE supports RCS chat after combined registration over WLAN |
| I.12.2d | RCS chat / dual / WLAN | n/a | C146 | UE supports RCS chat after combined registration over E-UTRA |
| **J.8** | **Registration / UE category M1** |  |  |  |
| J.8.1 | Initial Registration / UE category M1 | Rel-13 | C126 | UE supports MTSI and UE category M1 |
| **J.12** | **Call control / UE category M1** |  |  |  |
| J.12.1 | MO MTSI speech call / UE category M1 | Rel-13 | C163 | UE supports MTSI and preconditions and UE category M1 |
| J.12.2 | MT MTSI speech call / UE category M1 | Rel-13 | C163 | UE supports MTSI and preconditions and UE category M1 |
| **J.15** | **Supplementary Services / UE category M1** |  |  |  |
| J.15.1 | Communication Waiting and answering the call / UE category M1 | Rel-13 | C127 | UE supports MTSI and MTSI Communication Waiting and preconditions and UE category M1 |
| J.15.2 | Communication Waiting and cancelling the call / UE category M1 | Rel-13 | C127 | UE supports MTSI and MTSI Communication Waiting and preconditions and UE category M1 |
| J.15.3 | Subscription to the MWI event package / UE category M1 | Rel-13 | C128 | UE supports MTSI and MTSI Message Waiting Indication and UE category M1 |
| J.15.4 | Originating Identification Restriction / Signalling / UE category M1 | Rel-13 | C129 | UE supports MTSI and MTSI Originating Identification Restriction and preconditions and UE category M1 |
| J.15.5 | Terminating Identification Restriction / Signalling / UE category M1 | Rel-13 | C130 | UE supports MTSI and MTSI Terminating Identification Restriction and preconditions and UE category M1 |
| J.15.6 | Communication forwarding on non-reply: MO call initiation / UE category M1 | Rel-13 | C131 | UE supports MTSI and MTSI Communication Diversion and preconditions and UE category M1 |
| **J.18** | **SMS over IMS / UE category M1** |  |  |  |
| J.18.1 | Mobile Originating SMS / UE category M1 | Rel-13 | C154 | UE supports MO SMS over IMS and UE configured to use SMS over IP and UE is category M1 |
| J.18.2 | Mobile Terminating SMS / UE category M1 | Rel-13 | C155 | UE supports SM-over-IP receiver and UE configured to use SMS over IP and UE is category M1 |
| **J.19** | **Emergency Service over IMS / UE category M1** |  |  |  |
| J.19.1 | Emergency call with emergency registration / Success / Location information available / UE category M1 | Rel-13 | C132 | UE supports EPS IMS emergency call and is capable of obtaining location information and UE category M1 |
| J.19.2 | Emergency call with emergency registration / Success / Location information not available / UE category M1 | Rel-13 | C133 | UE supports EPS IMS emergency call and UE category M1 |

Table 4.1a: Applicability Conditions for TS 34.229-1 tests

|  |  |  |
| --- | --- | --- |
| Condition | Test Case Selection Expression | Comment |
| C00 | Void |  |
| C01 | IF A.4/2B THEN R ELSE N/A (condition unused, see NOTE 1 below) | Initiating a session |
| C02 | Void |  |
| C03 | IF A.4/2B AND A.4/16 THEN R ELSE N/A (condition unused, see NOTE 1) | Initiating a session and preconditions |
| C04 | IF A.12/4 THEN R ELSE N/A | Dedicated PDP Context |
| C05 | IF A.12/5 THEN R ELSE N/A | P-CSCF Discovery via PCO |
| C06 | IF A.7/1 AND A.13/1 THEN R ELSE N/A | IPv4 and configured to initiate P-CSCF discovery via DHCPv4 |
| C07 | IF A.7/1 AND A.12/8 AND A.13/2 AND A.12/5 THEN R ELSE N/A | IPv4 and P-CSCF discovery via PCO and P-CSCF discovery via DHCPv4 and configured to initiate P-CSCF discovery via PCO |
| C08 | IF A.12/7 THEN R ELSE N/A | Configured to initiate P-CSCF discovery via DHCPv6 |
| C09 | IF A.12/8 AND A.12/10 AND A.12/5 THEN R ELSE N/A | P-CSCF Discovery via PCO and P-CSCF discovery via DHCPv6 and configured to initiate P-CSCF discovery via PCO |
| C10 | IF A.12/8 AND A.12/10 AND A.12/7 THEN R ELSE N/A | P-CSCF Discovery via PCO and P-CSCF discovery via DHCPv6 and configured to initiate P-CSCF discovery via DHCPv6 |
| C11 | Void |  |
| C12 | Void |  |
| C13 | Void |  |
| C14 | Void |  |
| C15 | Void |  |
| C16 | Void |  |
| C17 | IF A.6a/2 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | IMS security and E-UTRA and not UE category M1 |
| C18 | IF A.6a/1 AND NOT A.6a/2 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | GIBA and not IMS security and E-UTRA and not UE category M1 |
| C19 | IF A.6a/2 AND A.6a/1 THEN R ELSE N/A | IMS security and GIBA |
| C20 | Void |  |
| C21 | Void |  |
| C22 | Void |  |
| C23 | IF A.3A/50 AND A.15/1 AND A.16/6 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and MTSI Communication Hold and preconditions and E-UTRA and not UE category M1 |
| C24 | IF A.3A/50 AND A.16/7 AND (A.6a/3 OR A.6a/4) AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and Incoming Communication Barring and (GBA or HTTP Digest) and E-UTRA and not UE category M1 |
| C25 | Void |  |
| C26 | Void |  |
| C27 | IF A.3A/50 AND A.15/1 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and preconditions and E-UTRA and not UE category M1 |
| C28 | IF A.3A/50 AND A.4/2B AND A.15/1 AND A.15/2 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and MTSI speech, AMR wideband and preconditions and E-UTRA and not UE category M1 |
| C29 | IF A.3A/50 AND A.15/1 AND A.16/11 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and MTSI Explicit Communication Transfer - consultative transfer and preconditions and E-UTRA and not UE category M1 |
| C30 | IF A.3A/50 AND A.16/5 AND (A.6a/3 OR A.6a/4) AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Communication Diversion and (GBA or HTTP Digest) and E-UTRA and not UE category M1 |
| C31 | IF A.3A/50 AND A.15/1 AND A.16/5 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and MTSI Communication Diversion and preconditions and E-UTRA and not UE category M1 |
| C32 | IF A.3A/50 AND A.15/1 AND A.16/9 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and MTSI Conference and preconditions and E-UTRA and not UE category M1 |
| C33 | Void |  |
| C34 | Void |  |
| C35 | Void |  |
| C37 | Void |  |
| C38 | Void |  |
| C39 | Void |  |
| C40 | Void |  |
| C41 | Void |  |
| C42 | Void |  |
| C43 | IF A.3A/50 AND A.16/1 AND (A.6a/3 OR A.6a/4) AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Originating Identification Presentation and (GBA or HTTP Digest) and E-UTRA and not UE category M1 |
| C44 | IF A.3A/50 AND A.16/2 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Originating Identification Restriction and preconditions and E-UTRA and not UE category M1 |
| C45 | IF A.3A/50 AND A.16/7 AND A.16/12 AND (A.6a/3 OR A.6a/4) AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Communication Barring and MTSI Anonymous Communication Rejection and (GBA or HTTP Digest) and E-UTRA and not UE category M1 |
| C46 | Void |  |
| C47 | Void |  |
| C48 | IF A.3A/50 AND A.16/3 AND (A.6a/3 OR A.6a/4) AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and Terminating Identification Presentation and (GBA or HTTP Digest) and E-UTRA and not UE category M1 |
| C49 | IF A.3A/50 AND A.16/4 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Terminating Identification Restriction and preconditions and E-UTRA and not UE category M1 |
| C50 | IF A.3A/50 AND A.16/8 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Message Waiting Indication and E-UTRA and not UE category M1 |
| C51 | Void |  |
| C52 | Void |  |
| C53 | Void |  |
| C54 | Void |  |
| C55 | IF A.3A/61 AND A.18/1 AND [73] A.4.4-2/32 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | SM-over-IP sender and E-UTRA and UE configured to use SMS over IP and UE is not category M1 |
| C56 | IF A.3A/62 AND A.18/1 AND [73] A.4.4-2/32 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | SM-over-IP receiver and E-UTRA and UE configured to use SMS over IP and UE is not category M1 |
| C57 | IF A.3A/50 AND A.15/1 AND A.16/13 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and MTSI communication waiting and preconditions and E-UTRA and not UE category M1 |
| C58 | IF A.6a/2 AND A.8/5 THEN R ELSE N/A | IMS security and Indicate Sigcomp |
| C59 | IF [73] A.4.2.1.1-1/4 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | EPS IMS emergency call and E-UTRA and not UE category M1 |
| C60 | Void |  |
| C61 | IF A.3A/50 AND A.16/9 AND A.16/14 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Conference and MTSI three way session and preconditions and E-UTRA and not UE category M1 |
| C62 | IF [73] A.4.2.1.1-1/4 AND [34.123-2] A.2/2 AND ([73] A.4.1-1/6 OR [73] A.4.1-1/7) THEN R ELSE N/A | EPS IMS emergency call and emergency speech call and (UTRAN or GERAN) |
| C63 | Void |  |
| C64 | IF [73] A.4.2.1.1-1/4 AND A.18/1 AND NOT [73] A.4.3.2-2A/1THEN R ELSE N/A | EPS IMS emergency call and E-UTRA and not UE category M1 |
| C65 | Void |  |
| C66 | IF [73] A.4.2.1.1-1/4 AND A.12/12 AND A.15/1 AND [34.123-2] A.2/2 AND ([73] A.4.1-1/6 OR [73] A.4.1-1/7) THEN R ELSE N/A | EPS IMS emergency call and initiating bidirectional voice session over IMS and MTSI speech and emergency call and (UTRAN or GERAN) |
| C67 | Void |  |
| C68 | Void |  |
| C69 | Void |  |
| C70 | IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/9 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and MTSI video and MTSI Video H.264 CBP Level 1.2 and preconditions and E-UTRA and not UE category M1 |
| C71 | IF A.3A/50 AND A.4/2B AND A.15/1 AND A.15/3 AND A.15/9 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and initiating a session and MTSI speech and MTSI video and MTSI Video H.264 CBP Level 1.2 and preconditions and E-UTRA and not UE category M1 |
| C72 | IF [73] A.4.2.1.1-1/4 AND A.3A/50 AND A.15/1 AND A.12/33 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | EPS IMS emergency call and MTSI and MTSI speech and MTSI Communication Hold during emergency call and preconditions and E-UTRA and not UE category M1 |
| C73 | IF [73] A.4.2.1.1-1/4 AND A.3A/50 AND A.15/1 AND A.18/1 AND NOT [73] A.4.3.2-2A/1THEN R ELSE N/A | EPS IMS emergency call and MTSI and MTSI speech and E-UTRA and not UE category M1 |
| C74 | IF [73] A.4.2.1.1-1/4 AND [3] A.2/2 AND [73] A.4.1-1/4 THEN R ELSE N/A | EPS IMS emergency call and emergency speech call and 1xRTT |
| C75 | IF A.12/12 AND A.15/1 AND [3] A.2/2 AND [73] A.4.1-1/4 THEN R ELSE N/A | initiating bidirectional voice session over IMS and MTSI Speech and IMS emergency call and emergency speech call and 1xRTT |
| C76 | IF [73] A.4.2.1.1-1/4 AND A.12/27 AND A.18/1 AND NOT [73] A.4.3.2-2A/1THEN R ELSE N/A | EPS IMS emergency call and capable of obtaining location Information and E-UTRA and not UE category M1 |
| C77 | IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/9 AND A.16/6 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and MTSI video and MTSI Video H.264 CBP Level 1.2 and MTSI Communication Hold and preconditions and E-UTRA and not UE category M1 |
| C78 | IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/9 AND A.16/9 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and MTSI Conference and preconditions and E-UTRA and not UE category M1 |
| C79 | IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/9 AND A.16/9 AND A.16/14 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and MTSI video andMTSI video H.264 CBP Level 1.2 and MTSI Conference and MTSI three way session and preconditions and E-UTRA and not UE category M1 |
| C80 | IF A.6a/2 AND A.12/39 AND A.18/1 AND ([73] A.4.4-2/5 OR [73] A.4.4-2/8) AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | IMS security and IMS deregistration and E-UTRA and (Support of CS/PS mode 2 or Support of PS mode 2) and not UE category M1 |
| C81 | IF A.3A/50 AND A.16/1 AND A.6a/3 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Originating Identification Presentation and GBA for XCAP authentication. and E-UTRA and not UE category M1 |
| C82 | IF A.3A/50 AND A.15/1 AND A.12/45 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and early media and preconditions and E-UTRA and not UE category M1 |
| C83 | IF A.3A/50 AND A.15/10 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech EVS and preconditions and E-UTRA and not UE category M1 |
| C84 | IF A.3A/50 AND A.16/15 AND (A.6a/3 OR A.6a/4) AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Outgoing Communication Barring and (GBA or HTTP Digest) and E-UTRA and not UE category M1 |
| C85 | Void |  |
| C86 | Void |  |
| C87 | Void |  |
| C88 | IF A.3A/50 AND A.16/2A AND (A.6a/3 OR A.6a/4) AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Originating Identification Restriction Configuration and (GBA or HTTP Digest) and E-UTRA and not UE category M1 |
| C89 | IF A.3A/50 AND A.16/4A AND (A.6a/3 OR A.6a/4) AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Terminating Identification Restriction - Configuration and (GBA or HTTP Digest) and E-UTRA and not UE category M1 |
| C90 | IF A.6a/5 AND A.18/3 THEN R ELSE N/A | SIP Digest without TLS and Fixed Broadband |
| C91 | IF A.6a/5 AND A.18/3 AND A.3A/50 AND NOT A.4/16 AND A.15/1 THEN R ELSE N/A | MTSI and MTSI speech and SIP Digest without TLS and no preconditions and Fixed Broadband |
| C92 | IF A.3A/50 AND A.16/1 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI Originating Identification Presentation and WLAN |
| C93 | IF A.3A/50 AND A.16/2 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI Originating Identification Restriction and preconditions and WLAN |
| C94 | IF A.3A/50 AND A.16/3 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI Terminating Identification Presentation and WLAN |
| C95 | IF A.3A/50 AND A.16/4 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI Terminating Identification Restriction and preconditions and WLAN |
| C96 | IF A.3A/50 AND A.16/1 AND A.18/3 THEN R ELSE N/A | MTSI and MTSI Originating Identification Presentation and Fixed Broadband |
| C97 | IF A.3A/50 AND A.16/2 AND A.18/3 THEN R ELSE N/A | MTSI and MTSI Originating Identification Restriction and Fixed Broadband |
| C98 | IF A.3A/50 AND A.16/3 AND A.18/3 THEN R ELSE N/A | MTSI and MTSI Terminating Identification Presentation and Fixed Broadband |
| C99 | IF A.3A/50 AND A.16/4 AND NOT A.4/16 AND A.18/3 THEN R ELSE N/A | MTSI and MTSI Terminating Identification Restriction and no preconditions and Fixed Broadband |
| C100 | IF A.6a/5 AND A.18/3 AND A.12/39 THEN R ELSE N/A | SIP Digest without TLS and Fixed Broadband and IMS deregistration |
| C101 | IF A.3A/50 AND A.16/5 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI Communication Diversion and WLAN |
| C102 | IF A.3A/50 AND A.15/1 AND A.16/5 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI speech and MTSI Communication Diversion and preconditions and WLAN |
| C103 | IF A.3A/50 AND A.16/5 AND A.18/3 THEN R ELSE N/A | MTSI and MTSI Communication Diversion and Fixed Broadband |
| C104 | IF A.3A/50 AND A.15/1 AND A.16/5 AND A.18/3 AND NOT A.4/16 THEN R ELSE N/A | MTSI and MTSI speech and MTSI Communication Diversion and Fixed Broadband and no preconditions |
| C105 | IF A.3A/50 AND A.6a/5 AND A.18/3 AND A.15/1 AND NOT A.4/16 THEN R ELSE N/A | MTSI and MTSI speech and SIP Digest without TLS and Fixed Broadband and no preconditions |
| C106 | IF A.3A/50 AND A.4/2B AND A.15/1 AND A.15/3 AND A.15/9 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and initiating a session and MTSI speech and MTSI video and MTSI Video H.264 CBP Level 1.2 and preconditions and WLAN |
| C107 | IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/9 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI speech and MTSI video and MTSI Video H.264 CBP Level 1.2 and preconditions and WLAN |
| C108 | IF A.3A/50 AND A.18/4 THEN R ELSE N/A | MTSI and WLAN |
| C109 | IF A.3A/50 AND A.15/1 AND A.16/6 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI speech and MTSI Communication Hold and preconditions and WLAN |
| C110 | IF A.3A/50 AND A.15/1 AND A.15/3 AND A.16/6 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI speech and MTSI video and MTSI Communication Hold and preconditions and WLAN |
| C111 | IF A.3A/50 AND A.16/7 AND A.18/4 AND (A.6a/3 OR A.6a/4) THEN R ELSE N/A | MTSI and MTSI Incoming Communication Barring and WLAN and (GBA or HTTP Digest) |
| C112 | IF A.3A/50 AND A.16/15 AND A.18/4 AND (A.6a/3 OR A.6a/4) THEN R ELSE N/A | MTSI and MTSI Outgoing Communication Barring and WLAN and (GBA or HTTP Digest) |
| C113 | IF A.3A/50 AND A.16/8 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI Message Waiting Indication and WLAN |
| C114 | IF A.3A/50 AND A.15/1 AND A.16/9 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI speech and MTSI Conference and preconditions and WLAN |
| C115 | Void |  |
| C116 | IF A.3A/50 AND A.15/1 AND A.16/9 AND A.16/14 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI speech and MTSI Conference and MTSI three way session and preconditions and WLAN |
| C117 | IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/9 AND A.16/9 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and MTSI Conference and preconditions and WLAN |
| C118 | Void |  |
| C119 | IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/9 AND A.16/9 AND A.16/14 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI speech and MTSI video and MTSI video H.264 CBP Level 1.2 and MTSI Conference and MTSI three way session and preconditions and WLAN |
| C120 | IF A.3A/50 AND A.15/1 AND A.16/13 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI speech and MTSI communication waiting and preconditions and WLAN |
| C121 | IF A.12/65 AND A.18/4 THEN R ELSE N/A | IMS emergency call over WLAN and WLAN |
| C122 | IF A.3A/50 AND A.6a/5 AND A.18/3 AND A.15/1 AND A.15/3 AND NOT A.4/16 THEN R ELSE N/A | MTSI and MTSI speech and MTSI video and SIP Digest without TLS and Fixed Broadband and no preconditions |
| C123 | IF A.3A/50 AND A.16/5 AND A.16/18 AND A.18/3 THEN R ELSE N/A | MTSI and MTSI Communication Diversion and SIP-based configuration and Fixed Broadband |
| C124 | IF A.6a/2 AND A.6a/1 AND [73] A.4.2.1.1-1/4 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | IMS security and GIBA and EPS IMS emergency call and E-UTRA and not UE category M1 |
| C125 | IF [73] A.4.2.1.1-1/4 AND A.12/52 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | EPS IMS emergency call and IMS emergency call without registration after rejection of emergency registration and E-UTRA and not UE category M1 |
| C126 | IF A.3A/50 AND A.4/16 AND [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and preconditions and UE category M1 |
| C127 | IF A.3A/50 AND A.16/13 AND A.4/16 AND [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI communication waiting and preconditions and UE category M1 |
| C128 | IF A.3A/50 AND A.16/8 AND [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Message Waiting Indication and UE category M1 |
| C129 | IF A.3A/50 AND A.16/2 AND A.4/16 AND [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Originating Identification Restriction and preconditions and UE category M1 |
| C130 | IF A.3A/50 AND A.16/4 AND A.4/16 AND [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Terminating Identification Restriction and preconditions and UE category M1 |
| C131 | IF A.3A/50 AND A.16/5 AND A.4/16 AND [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI Communication Diversion and preconditions and UE category M1 |
| C132 | IF [73] A.4.2.1.1-1/4 AND A.12/27 AND [73] A.4.3.2-2A/1 THEN R ELSE N/A | EPS IMS emergency call and capable of obtaining location Information and UE category M1 |
| C133 | IF [73] A.4.2.1.1-1/4 AND [73] A.4.3.2-2A/1 THEN R ELSE N/A | EPS IMS emergency call and UE category M1 |
| C134 | IF A.6a/2 AND NOT A.6a/1 AND [73] A.4.2.1.1-1/4 AND A.12/52 AND A.18/1 AND NOT [73] A.4.3.2-2A/1THEN R ELSE N/A | IMS security and NOT GIBA and EPS IMS emergency call and IMS emergency call without registration after rejection of emergency registration. UE supports E-UTRA and not UE category M1 |
| C135 | IF A.20/1 THEN R ELSE N/A | Combined Registration E-UTRA |
| C136 | IF A.20/2 THEN R ELSE N/A | Dual Registration E-UTRA |
| C137 | IF A.20/3 THEN R ELSE N/A | Combined Registration WLAN |
| C138 | IF A.20/4 THEN R ELSE N/A | Dual Registration WLAN |
| C139 | IF A.20/5 THEN R ELSE N/A | Voice Call after combined registration E-UTRA |
| C140 | IF A.20/6 THEN R ELSE N/A | Voice call after dual registration E-UTRA |
| C141 | IF A.20/7 THEN R ELSE N/A | Voice Call after combined registration WLAN |
| C142 | IF A.20/8 THEN R ELSE N/A | Voice call after dual registration WLAN |
| C143 | IF A.20/9 THEN R ELSE N/A | RCS chat after combined registration E-UTRA |
| C144 | IF A.20/10 THEN R ELSE N/A | RCS chat after dual registration E-UTRA |
| C145 | IF A.20/11 THEN R ELSE N/A | RCS chat after combined registration WLAN |
| C146 | IF A.20/12 THEN R ELSE N/A | RCS chat after dual registration WLAN |
| C147 | IF A.12/54 AND [3] A.10/16 THEN R ELSE N/A | IMS eCall type of emergency services over EPS and manual type of eCall |
| C148 | IF A.12/54 AND [3] A.10/17 THEN R ELSE N/A | IMS eCall type of emergency services over EPS and automatic type of eCall |
| C149 | IF A.12/55 AND [3] A.10/16 THEN R ELSE N/A | IMS eCall Only type of emergency services over EPS and manual type of eCall |
| C150 | IF A.12/55 AND [3] A.10/17 THEN R ELSE N/A | IMS eCall Only type of emergency services over EPS and automatic type of eCall |
| C151 | IF A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | E-UTRA and not UE category M1 |
| C152 | IF A.3A/50 AND A.15/1 AND A.4/16 AND A.18/4 THEN R ELSE N/A | MTSI and MTSI speech and preconditions and WLAN |
| C153 | IF A.3A/50 AND A.15/1 AND A.4/16 AND A.18/4 AND A.15/3 THEN R ELSE N/A | MTSI and MTSI speech and MTSI video and preconditions and WLAN |
| C154 | IF A.3A/61 AND [73] A.4.4-2/32 AND [73] A.4.3.2-2A/1 THEN R ELSE N/A | SM-over-IP sender and UE configured to use SMS over IP and UE is category M1 |
| C155 | IF A.3A/62 AND [73] A.4.4-2/32 AND [73] A.4.3.2-2A/1 THEN R ELSE N/A | SM-over-IP receiver and UE configured to use SMS over IP and UE is category M1 |
| C156 | Void | - |
| C157 | IF A.3A/50 AND A.15/1 AND A.4/2B AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 AND A.12/57 THEN R ELSE N/A | MTSI and MTSI speech and initiating a session and preconditions and E-UTRA and not UE category M1 and Session Timer |
| C158 | IF A.3A/50 AND A.15/1 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 AND A.12/57 THEN R ELSE N/A | MTSI and MTSI speech and preconditions and E-UTRA and not UE category M1 and Session Timer |
| C159 | IF A.3A/50 AND A.15/1 AND A.4/2B AND A.18/1 AND A.16/19 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | UE supports MTSI and MTSI speech and initiating a session and E-UTRA and USSI and not UE category M1 |
| C160 | IF A.3A/50 AND A.15/1 AND A.4/2B AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and initiating a session and preconditions and E-UTRA and not UE category M1 |
| C161 | IF A.6a/5 AND A.18/3 AND A.3A/50 AND A.4/16 AND A.15/1 THEN R ELSE N/A | MTSI and MTSI speech and SIP Digest without TLS and preconditions and Fixed Broadband |
| C162 | IF [73] A.4.2.1.1-1/4 AND A.18/1 AND [3] A.20/90 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | EPS IMS emergency call and E-UTRA and no USIM test execution and not UE category M1 |
| C163 | IF A.3A/50 AND A.4/16 AND [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and preconditions and UE category M1 |
| C164 | IF A.3A/50 AND A.15/1 AND A.4/2B AND NOT A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and initiating a session and no preconditions and E-UTRA and not UE category M1 |
| C165 | IF A.3A/50 AND A.15/1 AND A.18/1 AND NOT A.4/16 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | UE supports MTSI and MTSI speech and E-UTRA and no preconditions and not UE category M1 |
| C166 | Void |  |
| C167 | IF A.3A/50 AND A.15/1 AND A.15/2 AND NOT A.15/10 AND A.4/16 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | MTSI and MTSI speech and MTSI speech, AMR wideband and not MTSI speech, EVS and preconditions and E-UTRA and not UE category M1 |
| C168 | IF A.3A/64 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | Concatenated SM-over-IP sender and E-UTRA and UE is not category M1 |
| C169 | IF A.3A/65 AND A.18/1 AND NOT [73] A.4.3.2-2A/1 THEN R ELSE N/A | Concatenated SM-over-IP receiver　and E-UTRA and UE is not category M1 |

NOTE 1: Applicability of test cases 13.2 and 13.3 are currently marked as FFS. The reason to this is that the contents of the specific messages sent by the SS (as currently specified within those Call Control test cases) do not match the contents of those messages as expected by any specific IMS application known. Further on the test specification apparently lacks support for certain application specific message exchanges which are however mandatory for a few specific IMS applications specified outside of TS 24.229. It is necessary to fully resolve the problem (by e.g. defining the applications for which the Call Control test cases would be applicable, possibly specifying the extensions to the test cases like required by those applications and creating the corresponding application profiles) before the applicability statements of Call Control test cases can be unambiguously defined.

NOTE 2: Either one of the two adjacent test cases, i.e. (19.1.3 or 19.1.3a), (19.3.2 or 19.3.2a), shall be executed.

NOTE 3: This TC can optionally be executed against Rel-8 and onwards UEs.

NOTE 4: In case the UE supports both GBA and HTTP Digest, GBA shall be used as XCAP authentication.

NOTE 5: In case the UE supports both GBA and HTTP Digest, HTTP Digest shall be used as XCAP authentication.

NOTE 6: The TC contains multi-RAT branches not all mandatory in the scope of the TC. The E-UTRA/EPC branch will be executed always; the TC will go through any other RAT branch depending on the UE capability. Execution only of the E-UTRA/EPC branch regardless of the UE capabilities can also be imposed by setting the IXIT px\_RATComb\_Tested = EUTRA\_only. For UEs supporting both UTRA and GERAN the TC should be executed once only for the E-UTRA/EPC and UTRA combination by setting the px\_RATComb\_Tested = EUTRA\_UTRA.

NOTE 7: This TC can optionally be executed against Rel-9 and onwards UEs.

## 4.2 Applicabilities for test cases specified in TS 34.229-5

Table 4.2: Applicability of TS 34.229-5 tests

| Clause | Title | | Release | Applicability | Comments |
| --- | --- | --- | --- | --- | --- |
| **6** | **Registration** | |  |  |  |
| 6.1 | Initial Registration / 5GS | | Rel-15 | C01 | UE supports NR (see Note 1 below) |
| 6.2 | Initial Registration Failures / 5GS | | Rel-15 | C01 | UE supports NR |
| 6.3 | Re-Registration Scenarios / 5GS | | Rel-15 | C01 | UE supports NR |
| 6.4 | De-Registration Scenarios / 5GS | | Rel-15 | C13 | UE supports NR and IMS de-registration |
| 6.5 | Void | |  |  |  |
| 6.6 | Re-Registration after capability update / 5GS | | Rel-15 | C15 | UE supports NR and Enabling/Disabling SMS over IMS |
| 6.7 | Authentication / MAC Parameter Invalid / Only two consecutive challenges / 5GS | | Rel-15 | C01 | UE supports NR |
| 6.8 | Authentication / Security Server missing / SQN out of range / 5GS | | Rel-15 | C01 | UE supports NR |
| 6.9 | Subscription / 503 Service Unavailable / 5GS | | Rel-15 | C01 | UE supports NR |
| **7** | **Call Control** | |  |  |  |
| 7.1 | MTSI MO Voice Call / 503 Service Unavailable / 5GS | Rel-15 | | C03 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and AMR-WB and EVS and initiating a session and NG114 v1.0 |
| 7.2 | MTSI MO Voice Call / 504 Server Time-out / 5GS | Rel-15 | | C03 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and AMR-WB and EVS and initiating a session and NG114 v1.0 |
| 7.3 | Void |  | |  |  |
| 7.4 | Void | |  |  |  |
| 7.4a | MTSI MO Voice Call with preconditions at both originating UE and terminating UE / Default Configuration / 5GS | | Rel-15 | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.5 | MTSI MO Voice call without preconditions at both originating UE and terminating UE / 5GS | | Rel-15 | C27 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and AMR-WB and EVS and initiating a session and preconditions and disabling preconditions and NG114 v1.0 |
| 7.6 | Void | |  |  |  |
| 7.6a | MTSI MT Voice Call with preconditions at both originating UE and terminating UE / Default Configuration / 5GS | | Rel-15 | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.7 | MTSI MT Voice Call without preconditions at both originating UE and terminating UE / 5GS | | Rel-15 | C28 | UE supports NR and IMS voice over NR and MTSI speech and preconditions and disabling preconditions and NG114 v1.0 |
| 7.8 | MTSI MT Voice Call without preconditions at originating UE and with preconditions at terminating UE / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.9 | MTSI MT Voice Call with preconditions at originating UE and without preconditions at terminating UE / 5GS | Rel-15 | | C28 | UE supports NR and IMS voice over NR and MTSI speech and preconditions and disabling preconditions and NG114 v1.0 |
| 7.10 | MTSI MT Voice call without preconditions and without SDP offer in MT INVITE / 5GS | Rel-15 | | C60 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and AMR-WB and EVS and preconditions and disabling preconditions and NG114 v1.0 and (EVS Configuration B0 or EVS Configuration A1) |
| 7.11 | MTSI MT Voice call without preconditions at terminating UE and originating UE requiring them / 5GS | Rel-15 | | C05 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and (not preconditions or (preconditions and disabling preconditions)) |
| 7.12 | MTSI MO Voice Call with preconditions at originating UE and without preconditions at terminating UE / 5GS | Rel-15 | | C14 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and AMR-WB and EVS and initiating a session and preconditions and NG114 v1.0 and (EVS Configuration B0 or EVS Configuration A1) |
| 7.13 | MTSI MT Voice Call with RTCP disabled / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.14 | MTSI MO Video Call with preconditions at both originating and terminating UE / 5GS | Rel-15 | | C61 | NR and IMS voice over NR and MTSI Speech and MTSI video and preconditions and NG.114 v1.0  NOTE 3 |
| 7.15 | MTSI MO Video call without preconditions at both originating UE and terminating UE / 5GS | Rel-15 | | C31 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and AMR-WB and EVS 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 initiating a session and preconditions and disabling preconditions and NG114 v1.0 and (EVS Configuration B0 or EVS Configuration A1) |
| 7.16 | MTSI MT Video call with preconditions at both originating UE and terminating UE / 5GS | Rel-15 | | C61 | NR and IMS voice over NR and MTSI Speech and MTSI video and preconditions and NG.114 v1.0  NOTE 3 |
| 7.17 | MTSI MT Video call without preconditions at both originating UE and terminating UE / 5GS | Rel-15 | | C33 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and EVS 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 preconditions and disabling preconditions and NG114 v1.0 and EVS Configuration B0 |
| 7.18 | MTSI MO Voice Call / EVS / AMR-WB / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.19 | MTSI MT Voice Call / EVS / AMR-WB IO mode / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.20 | MTSI MO Voice Call / add video and remove video / with preconditions at both originating UE and terminating UE / 5GS | Rel-15 | | C61 | NR and IMS voice over NR and MTSI Speech and MTSI video and preconditions and NG.114 v1.0  NOTE 3 |
| 7.21 | MTSI MO Voice Call / add video and remove video / without preconditions at both originating UE and terminating UE / 5GS | Rel-15 | | C31 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and AMR-WB and EVS 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 initiating a session and preconditions and disabling preconditions and NG114 v1.0 and (EVS Configuration B0 or EVS Configuration A1) |
| 7.22 | MTSI MT Voice Call / add video and remove video / with preconditions at both originating UE and terminating UE / 5GS | Rel-15 | | C61 | NR and IMS voice over NR and MTSI Speech and MTSI video and preconditions and NG.114 v1.0  NOTE 3 |
| 7.23 | MTSI MT Voice Call / add video and remove video / without preconditions at both originating UE and terminating UE / 5GS | Rel-15 | | C33 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and EVS 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 preconditions and disabling preconditions and NG114 v1.0 and EVS Configuration B0 |
| 7.24 | MTSI MT Voice Call / Forking / UE receives CANCEL request for a forked MT voice call / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.24a | MTSI MO Voice Call / Forking / UE receives two preliminary responses and one early dialog termination / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.24b | MTSI MO Voice Call / UE receives two preliminary responses and one final response / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.25 | MTSI MT Voice call without SDP offer in INVITE / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.26 | Mobile Originating CAT / Forking Model / MO Voice Call / 5GS | Rel-15 | | C17 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.27 | Session Timer / MO Voice Call / UE is able to refresh the session / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.28 | Session Timer / MO Voice Call / Remote end is refresher / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.29 | Session Timer / MO Voice Call / Remote end does not support Session Timer / 5GS | Rel-15 | | C29 | NR and IMS voice over NR and MTSI Speech and preconditions and Session Timer for own benefit and NG.114 v1.0 |
| 7.30 | Session Timer / MO Voice Call / Remote end supports but does not use Session Timer / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.31 | Session Timer / MT Voice Call / Remote end supports but does not send Session-Expires / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.32 | Session Timer / MT Voice Call / Remote end sends Session-Expires but does not choose refresher / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| 7.33 | Session Timer / MT Voice Call / Remote end chooses UE as refresher / 5GS | Rel-15 | | C30 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and EVS and preconditions and Session Timer and re-INVITE for session refresh and NG114 v1.0 and EVS Configuration B0 |
| 7.34 | Session Timer / MT Voice Call / Remote end does not support Session Timer / 5GS | Rel-15 | | C44 | NR and IMS voice over NR and MTSI Speech and preconditions and NG.114 v1.0 |
| **8** | **Supplementary Services** | |  |  |  |
| 8.1 | Originating Identification Presentation / Configuration / 5GS | | Rel-15 | C06 | UE supports NR and (GBA or HTTP Digest) and MTSI and MTSI Originating Identification Presentation |
| 8.2 | Originating Identification Restriction / Configuration / 5GS | | Rel-15 | C45 | UE supports NR and (GBA or HTTP Digest) and MTSI and MTSI Originating Identification Restriction - Configuration |
| 8.3 | Originating Identification Restriction / Signalling / 5GS | | Rel-15 | C46 | UE supports NR and IMS voice over NR and MTSI Originating Identification Restriction and MTSI speech and preconditions and NG114 v1.0 |
| 8.4 | Terminating Identification Presentation / Configuration / 5GS | | Rel-15 | C47 | UE supports NR and (GBA or HTTP Digest) and MTSI and Terminating Identification Presentation |
| 8.5 | Terminating Identification Restriction / Configuration / 5GS | | Rel-15 | C48 | UE supports NR and (GBA or HTTP Digest) and MTSI and Terminating Identification Restriction - Configuration |
| 8.6 | Terminating Identification Restriction / Signalling / 5GS | | Rel-15 | C49 | UE supports NR and IMS voice over NR and Terminating Identification Restriction and MTSI speech and preconditions and NG114 v1.0 |
| 8.7 | Communication Forwarding Unconditional / Configuration / 5GS | | Rel-15 | C50 | UE supports NR and (GBA or HTTP Digest) and MTSI and Communication Diversion |
| 8.8 | Communication Forwarding Unconditional / Signalling / 5GS | | Rel-15 | C53 | UE supports NR and IMS voice over NR and Communication Diversion and MTSI speech and preconditions and NG114 v1.0 |
| 8.9 | Communication Forwarding on Not Logged-in / Configuration / 5GS | | Rel-15 | C50 | UE supports NR and (GBA or HTTP Digest) and MTSI and Communication Diversion |
| 8.11 | Communication Forwarding on Busy / Configuration / 5GS | | Rel-15 | C50 | UE supports NR and (GBA or HTTP Digest) and MTSI and Communication Diversion |
| 8.13 | Communication Forwarding on Subscriber Not Reachable / Configuration / 5GS | | Rel-15 | C50 | UE supports NR and (GBA or HTTP Digest) and MTSI and Communication Diversion |
| 8.15 | Communication Forwarding on No Reply / Configuration / 5GS | | Rel-15 | C50 | UE supports NR and (GBA or HTTP Digest) and MTSI and Communication Diversion |
| 8.17 | Barring of All Incoming Calls / Configuration / 5GS | | Rel-15 | C51 | UE supports NR and (GBA or HTTP Digest) and MTSI and Incoming Communication Barring |
| 8.18 | Barring of All Incoming Calls / except for a specific user / Configuration / 5GS | | Rel-15 | C07 | UE supports NR and (GBA or HTTP Digest) and MTSI and Incoming Communication Barring |
| 8.19 | Barring of All Incoming Calls from anonymous users / Configuration / 5GS | | Rel-15 | C51 | UE supports NR and (GBA or HTTP Digest) and MTSI and Incoming Communication Barring |
| 8.21 | Barring of all Outgoing Calls / Configuration / 5GS | | Rel-15 | C52 | UE supports NR and (GBA or HTTP Digest) and MTSI and Outgoing Communication Barring |
| 8.22 | Barring of Outgoing International Calls / Configuration / 5GS | | Rel-15 | C52 | UE supports NR and (GBA or HTTP Digest) and MTSI and Outgoing Communication Barring |
| 8.23 | Barring of Outgoing International Calls / ex Home Country / Configuration / 5GS | | Rel-15 | C52 | UE supports NR and (GBA or HTTP Digest) and MTSI and Outgoing Communication Barring |
| 8.24 | Barring of Outgoing International Calls / When Roaming / Configuration / 5GS | | Rel-15 | C52 | UE supports NR and (GBA or HTTP Digest) and MTSI and Outgoing Communication Barring |
| 8.25 | Barring of Incoming Calls / When Roaming / Configuration / 5GS | | Rel-15 | C51 | UE supports NR and (GBA or HTTP Digest) and MTSI and Incoming Communication Barring |
| 8.26 | MO Voice Call Hold without announcement / 5GS | | Rel-15 | C20 | UE supports NR and IMS voice over NR and MTSI speech and MTSI Communication Hold and preconditions and NG114 v1.0 |
| 8.27 | MO Video Call Hold without announcement / 5GS | | Rel-15 | C34 | UE supports NR and IMS voice over NR and MTSI speech and MTSI video and MTSI Communication Hold and preconditions and NG114 v1.0 |
| 8.28 | MT Voice Call Hold without announcement / 5GS | | Rel-15 | C21 | UE supports NR and IMS voice over NR and MTSI speech and MTSI Communication Hold and preconditions and NG114 v1.0 |
| 8.29 | MT Video Call Hold without announcement / 5GS | | Rel-15 | C34 | UE supports NR and IMS voice over NR and MTSI speech and MTSI video and MTSI Communication Hold and initiating a session and preconditions and NG114 v1.0 |
| 8.30 | Subscription to the MWI event package / 5GS | | Rel-15 | C22 | UE supports NR and MTSI Message Waiting Indication |
| 8.31 | Creating and leaving a conference / 5GS | | Rel-15 | C23 | UE supports NR and IMS voice over NR and MTSI speech and MTSI Conference and preconditions and NG114 v1.0 |
| 8.32 | Inviting user to conference by sending a REFER request to the conference focus / 5GS | | Rel-15 | C23 | UE supports NR and IMS voice over NR and MTSI speech and MTSI Conference and preconditions and NG114 v1.0 |
| 8.33 | Inviting user to conference by sending a REFER request to the conference focus / Video / 5GS | | Rel-15 | C36 | UE supports NR and IMS voice over NR and MTSI speech and MTSI video and MTSI Conference and preconditions and NG114 v1.0 |
| 8.34 | Three way session creation / Voice / 5GS | | Rel-15 | C24 | UE supports NR and IMS voice over NR and MTSI speech and MTSI Conference and MTSI three way session and preconditions and NG114 v1.0 |
| 8.35 | Three way session creation / Video / 5GS | | Rel-15 | C35 | UE supports NR and IMS voice over NR and MTSI speech and MTSI video and MTSI Conference and MTSI three way session and preconditions and NG114 v1.0 |
| 8.36 | MO Voice Call Explicit Communication Transfer / Consultative Call Transfer / 5GS | | Rel-15 | C25 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and MTSI Explicit Communication Transfer - consultative transfer and preconditions and NG114 v1.0 |
| 8.37 | Communication Waiting and answering the call / 5Gs | | Rel-15 | C26 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and MTSI Communication Waiting and preconditions and NG114 v1.0 |
| 8.38 | Communication Waiting and cancelling the voice call / 5GS | | Rel-15 | C26 | UE supports NR and IMS voice over NR and MTSI and MTSI speech and MTSI Communication Waiting and preconditions and NG114 v1.0 |
| 8.39 | GBA Authentication / 5GS | | Rel-15 | C55 | UE supports NR and GBA |
| 8.39a | HTTP Digest Authentication / 5GS | | Rel-15 | C56 | UE supports NR and HTTP Digest |
| 8.40 | User initiated USSI / 5GS | | Rel-15 | C37 | UE supports NR and MTSI and MTSI speech and USSI and initiating a session |
| 8.41 | Communication Forwarding on No Reply:MO Voice Call initiation with preconditions | | Rel-15 | C38 | UE supports NR and IMS voice over NR and MTSI speech and MTSI Communication Diversion and preconditions and NG114 v1.0 |
| **9** | **SMS** | |  |  |  |
| 9.1 | Mobile Originating SMS / 5GS | | Rel-15 | C08 | UE supports NR and SM-over-IP sender and UE configured to use SMS over IP |
| 9.2 | Mobile Terminating SMS / 5GS | | Rel-15 | C09 | UE supports NR and SM-over-IP receiver and UE configured to use SMS over IP |
| 9.3 | Mobile Originating Concatenated SMS / 5GS | | Rel-15 | C10 | UE supports NR and concatenated SM-over-IP sender and UE configured to use SMS over IP |
| 9.4 | Mobile Terminating Concatenated SMS / 5GS | | Rel-15 | C11 | UE supports NR and concatenated SM-over-IP receiver and UE configured to use SMS over IP |
| 9.5 | Mobile Originating SMS / RP-ERROR / 5GS | | Rel-15 | C08 | UE supports NR and SM-over-IP sender and UE configured to use SMS over IP |
| **10** | **Emergency Calls** | |  |  |  |
| 10.1 | Emergency Call with emergency registration / Success / Location information available / 5GS | | Rel-15 | C12 | UE supports NR and emergency services in NR connected to 5GCN and is capable of obtaining location information |
| 10.2 | Emergency Call with emergency registration / Success / Location information not available / 5GS | | Rel-15 | C39 | UE supports NR and MTSI and MTSI speech and emergency services in NR connected to 5GCN |
| 10.3 | Emergency call with emergency registration / Emergency SIP signalling and media in parallel with another ongoing IM CN subsystem signalling and media / 5GS | | Rel-15 | C40 | UE supports NR and MTSI and MTSI speech and emergency services in NR connected to 5GCN and preconditions and Communication Hold during emergency call |
| 10.4 | Non-UE detectable emergency call / IM CN sends a 1xx response / UE geographical location information available or not / 5GS | | Rel-15 | C41 | UE supports NR and MTSI and MTSI speech and preconditions and emergency services in NR connected to 5GCN |
| 10.6 | Non-UE detectable emergency call / IM CN sends 380 with an Alternative Service / Previous emergency IMS registration not expired / 5GS | | Rel-15 | C39 | UE supports NR and MTSI and MTSI speech and emergency services in NR connected to 5GCN |
| 10.7 | Void | |  |  |  |
| 10.8 | Void | |  |  |  |
| 10.9 | Emergency call without emergency registration / UE credentials are not accepted / 5GS | | Rel-15 | C39 | UE supports NR and MTSI and MTSI speech and emergency services in NR connected to 5GCN |
| 10.10 | Emergency call without emergency registration / Failure of registration / Rejected by 403 (Forbidden) / 5GS | | Rel-15 | C39 | UE supportsNR and MTSI and MTSI speech and emergency services in NR connected to 5GCN |
| 10.11 | Void | |  |  |  |
| 10.12 | User-initiated emergency reregistration / UE has emergency related ongoing dialog / 5GS | | Rel-15 | C39 | UE supports NR and MTSI and MTSI speech and emergency services in NR connected to 5GCN |
| 10.13 | User-initiated emergency reregistration / User initiates an emergency call / 5GS | | Rel-15 | C39 | UE supports NR and MTSI and MTSI speech and emergency services in NR connected to 5GCN |
| 10.14 | In parallel emergency and non-emergency registrations / 5GS | | Rel-15 | C39 | UE supports NR and MTSI and MTSI speech and emergency services in NR connected to 5GCN |
| 10.15 | Void | |  |  |  |
| **11** | **eCall over IMS** | |  |  |  |
| 11.1 | eCall over IMS / Manual initiation / Normal registration / Emergency registration / Success / 200 OK with ACK / 5GS | | Rel-16 | C42 | UE supports MTSI and MTSI speech and IMS eCall type of emergency services over 5GS and Manual type of eCall (NOTE 2) |
| 11.2 | eCall over IMS / Automatic initiation / Normal registration / Emergency registration / Success / 200 OK with ACK / 5GS | | Rel-16 | C43 | UE supports MTSI and MTSI speech and IMS eCall type of emergency services over 5GS and Automatic type of eCall (NOTE 2) |
| 11.4 | eCall over IMS / Manual initiation / MSD transfer and 200 OK with ACK / SIP INFO for MSD Update / Success / 5GS | | Rel-16 | C42 | UE supports MTSI and MTSI speech and IMS eCall type of emergency services over 5GS and Manual type of eCall (NOTE 2) |
| 11.5 | eCall over IMS / Automatic initiation / MSD transfer and 200 OK with ACK / SIP INFO request for MSD Update / Success / 5GS | | Rel-16 | C43 | UE supports and MTSI and MTSI speech and IMS eCall type of emergency services over 5GS and Automatic type of eCall (NOTE 2) |
| 11.6 | eCall over IMS / Automatic initiation / MSD transfer and 200 OK with ACK / SIP INFO request for unsupported MSD / UE indicates unsuccessful in SIP INFO / 5GS | | Rel-16 | C43 | UE supports and MTSI and MTSI speech and IMS eCall type of emergency services over 5GS and Automatic type of eCall (NOTE 2) |

NOTE 1: If any one of the other Registration test cases 6.2 until 6.9 is executed, this test case is optional.

NOTE 2: This test case can optionally be executed against Rel-15 UEs.

NOTE 3: As an exception to NG.114 support of MTSI Video Call is optional.

Table 4.2a: Applicability Conditions for TS 34.229-5 tests

|  |  |  |
| --- | --- | --- |
| Condition | Test Case Selection Expression | Comment |
| C01 | IF A.18/5 THEN R ELSE N/A | NR |
| C02 | Void |  |
| C03 | Void |  |
| C04 | Void |  |
| C05 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.3A/50 AND A.15/1 AND ( NOT A.4/16 OR (A.4/16 AND A.12/59)) THEN R ELSE N/A | NR and IMS voice over NR and MTSI and MTSI speech and (not preconditions or (preconditions and disabling preconditions)) |
| C06 | IF A.18/5 AND (A.6a/3 OR A.6a/4) AND A.3A/50 AND A.16/1 THEN R ELSE N/A | NR and (GBA or HTTP Digest) and MTSI and MTSI Originating Identification Presentation |
| C07 | IF A.18/5 AND A.3A/50 AND A.16/7 AND A.6a/3 THEN R ELSE N/A | NR and MTSI and MTSI Communication Barring and GBA for XCAP authentication |
| C08 | IF A.18/5 AND A.3A/61 AND [73] A.4.4-2/32 THEN R ELSE N/A | NR and SM-over-IP sender and UE configured to use SMS over IP |
| C09 | IF A.18/5 AND A.3A/62 AND [73] A.4.4-2/32 THEN R ELSE N/A | NR and SM-over-IP receiver and UE configured to use SMS over IP |
| C10 | IF A.18/5 AND A.3A/64 AND [73] A.4.4-2/32 THEN R ELSE N/A | NR and concatenated SM-over-IP sender and UE configured to use SMS over IP |
| C11 | IF A.18/5 AND A.3A/65 AND [73] A.4.4-2/32 THEN R ELSE N/A | NR and concatenated SM-over-IP receiver and UE configured to use SMS over IP |
| C12 | IF A.18/5 AND [93] A.4.3.7-1/14 AND A.12/27 THEN R ELSE N/A | NR and emergency services in NR connected to 5GCN and is capable of obtaining location information |
| C13 | IF A.18/5 AND A.12/39 THEN R ELSE N/A | NR and IMS de-registration |
| C14 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.3A/50 AND A.15/1 AND A.15/2 AND A.15/10 AND A.4/2B AND A.4/16 AND A.21/1 AND (A.22/15 OR A.22/18) THEN R ELSE N/A | NR and IMS voice over NR and MTSI and MTSI speech and AMR-WB and EVS and initiating a session and preconditions and NG114 v1.0 and (EVS Configuration B0 or EVS Configuration A1) |
| C15 | IF A.18/5 AND A.12/58 THEN R ELSE N/A | NR and Enabling/Disabling SMS over IMS |
| C16 | Void |  |
| C17 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.4/16 AND A.12/45 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI Speech and preconditions and early media and NG.114 v1.0 |
| C18 | Void |  |
| C19 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.3A/50 AND A.15/1 AND A.15/10 AND A.4/16 AND A.12/57 AND A.21/1 AND A.22/15 THEN R ELSE N/A | NR and IMS voice over NR and MTSI and MTSI speech and EVS and preconditions and Session Timer (and NG114 v1.0 or EVS Configuration B0) |
| C20 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.16/6 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI speech and MTSI Communication Hold and preconditions and NG114 v1.0 |
| C21 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.16/6 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR MTSI speech and MTSI Communication Hold and preconditions and NG114 v1.0 |
| C22 | IF A.18/5 AND A.16/8 THEN R ELSE N/A | NR and MTSI Message Waiting Indication |
| C23 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.16/9 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI speech and MTSI Conference and preconditions and NG114 v1.0 |
| C24 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.16/9 AND A.16/14 AND A.4/16 AND A.21/1 AND (A.22/15 OR A.22/18) THEN R ELSE N/A | NR and IMS voice over NR and MTSI speech and MTSI Conference and MTSI three way session and preconditions and NG114 v1.0 |
| C25 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.3A/50 AND A.15/1 AND A.16/11 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI and MTSI speech and MTSI Explicit Communication Transfer - consultative transfer and preconditions and NG114 v1.0 |
| C26 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.3A/50 AND A.15/1 AND A.16/13 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI and MTSI speech and MTSI Communication Waiting and preconditions and NG114 v1.0 |
| C27 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.3A/50 AND A.15/1 AND A.15/2 AND A.15/10 AND A.4/2B AND A.4/16 AND A.12/59 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI and MTSI speech and AMR-WB and EVS and initiating a session and preconditions and disabling preconditions and NG114 v1.0 |
| C28 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.4/16 AND A.12/59 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI speech and preconditions and disabling preconditions and NG114 v1.0 |
| C29 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.4/16 AND A.12/60 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI Speech and preconditions and Session Timer for own benefit and NG.114 v1.0 |
| C30 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.3A/50 AND A.15/1 AND A.15/10 AND A.4/16 AND A.12/57 AND A.12/61 AND A.21/1 AND A.22/15 THEN R ELSE N/A | NR and IMS voice over NR and MTSI and MTSI speech and EVS and preconditions and Session Timer and re-INVITE for session refresh and (NG114 v1.0 or EVS Configuration B0) |
| C31 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.3A/50 AND A.15/1 AND A.15/2 AND A.15/10 AND A.15/3 AND A.15/11 AND A.15/12 AND A.15/13 AND A.4/2B AND A.4/16 AND A.12/59 AND A.21/1 AND (A.22/15 OR A.22/18) THEN R ELSE N/A | NR and IMS voice over NR and MTSI and MTSI speech and AMR-WB and EVS 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 initiating a session and preconditions and disabling preconditions and NG114 v1.0 and (EVS Configuration B0 or EVS Configuration A1) |
| C32 | Void |  |
| C33 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.3A/50 AND A.15/1 AND A.15/10 AND A.15/3 AND A.15/11 AND A.15/12 AND A.15/13 AND A.4/16 AND A.12/59 AND A.21/1 AND A.22/15 THEN R ELSE N/A | NR and IMS voice over NR and MTSI and MTSI speech and EVS 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 preconditions and disabling preconditions and NG114 v1.0 and EVS Configuration B0 |
| C34 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.15/3 AND A.16/6 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI speech and MTSI video and MTSI Communication Hold and preconditions and NG114 v1.0 |
| C35 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.15/3 AND A.16/9 AND A.16/14 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI speech and MTSI video and MTSI Conference and MTSI three way session and preconditions and NG114 v1.0 |
| C36 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.15/3 AND A.16/9 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI speech and MTSI video and MTSI Conference and preconditions and NG114 v1.0 |
| C37 | IF A.18/5 AND A.3A/50 AND A.15/1 AND A.16/19 AND A.4/2B THEN R ELSE N/A | NR and MTSI and MTSI speech and USSI and initiating a session |
| C38 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.16/5 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI speech and MTSI Communication Diversion and preconditions and NG114 v1.0 |
| C39 | IF A.18/5 AND A.3A/50 AND A.15/1 AND [93] A.4.3.7-1/14 THEN R ELSE N/A | NR and MTSI and MTSI speech and emergency services in NR connected to 5GCN |
| C40 | IF A.18/5 AND A.3A/50 AND A.15/1 AND [93] A.4.3.7-1/14 AND A.4/16 AND A.12/33 THEN R ELSE N/A | NR and MTSI and MTSI speech and emergency services in NR connected to 5GCN and preconditions and Communication Hold during emergency call |
| C41 | IF A.18/5 AND A.3A/50 AND A.15/1 AND A.4/16 AND [93] A.4.3.7-1/14 THEN R ELSE N/A | NR and MTSI and MTSI speech and preconditions and emergency services in NR connected to 5GCN |
| C42 | IF A.3A/50 AND A.15/1 AND A.12/63 AND [3] A.10/16 THEN R ELSE N/A | MTSI and MTSI speech and IMS eCall type of emergency services over 5GS and Manual type of eCall |
| C43 | IF A.3A/50 AND A.15/1 AND A.12/63 AND [3] A.10/17 THEN R ELSE N/A | MTSI and MTSI speech and IMS eCall type of emergency services over 5GS and Automatic type of eCall |
| C44 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI speech and preconditions and NG.114 v1.0 |
| C45 | IF A.18/5 AND (A.6a/3 OR A.6a/4) AND A.3A/50 AND A.16/2A THEN R ELSE N/A | NR and (GBA or HTTP Digest) and MTSI and Originating Identification Restriction - Configuration |
| C46 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.16/2 AND A.15/1 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI Originating Identification Restriction and MTSI speech and preconditions and NG114 v1.0 |
| C47 | IF A.18/5 AND (A.6a/3 OR A.6a/4) AND A.3A/50 AND A.16/3 THEN R ELSE N/A | NR and (GBA or HTTP Digest) and MTSI and Terminating Identification Presentation |
| C48 | IF A.18/5 AND (A.6a/3 OR A.6a/4) AND A.3A/50 AND A.16/4A THEN R ELSE N/A | NR and (GBA or HTTP Digest) and MTSI and Terminating Identification Restriction - Configuration |
| C49 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.16/4 AND A.15/1 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and Terminating Identification Restriction and MTSI speech and preconditions and NG114 v1.0 |
| C50 | IF A.18/5 AND (A.6a/3 OR A.6a/4) AND A.3A/50 AND A.16/5 THEN R ELSE N/A | NR and (GBA or HTTP Digest) and MTSI and Communication Diversion |
| C51 | IF A.18/5 AND (A.6a/3 OR A.6a/4) AND A.3A/50 AND A.16/7 THEN R ELSE N/A | NR and (GBA or HTTP Digest) and MTSI and Incoming Communication Barring |
| C52 | IF A.18/5 AND (A.6a/3 OR A.6a/4) AND A.3A/50 AND A.16/15 THEN R ELSE N/A | NR and (GBA or HTTP Digest) and MTSI and Outgoing Communication Barring |
| C53 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.16/5 AND A.15/1 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NRand Communication Diversion and MTSI speech and preconditions and NG114 v1.0 |
| C54 | Void |  |
| C55 | IF A.18/5 AND A.6a/3 THEN R ELSE N/A | NR and GBA |
| C56 | IF A.18/5 AND A.6a/4 THEN R ELSE N/A | NR and Digest |
| C57 | Void |  |
| C58 | Void |  |
| C59 | Void |  |
| C60 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.3A/50 AND A.15/1 AND A.15/2 AND A.15/10 AND A.4/16 AND A.12/59 AND A.21/1 AND (A.22/15 OR A.22/18) THEN R ELSE N/A | UE supports NR and IMS voice over NR and MTSI and MTSI speech and AMR-WB and EVS and preconditions and disabling preconditions and NG114 v1.0 and (EVS Configuration B0 or EVS Configuration A1) |
| C61 | IF A.18/5 AND [93] A.4.3.7-1/32 AND A.15/1 AND A.15/3 AND A.4/16 AND A.21/1 THEN R ELSE N/A | NR and IMS voice over NR and MTSI speech and MTSI video and preconditions and NG.114 v1.0 |

Annex A (normative):  
ICS proforma for 3rd Generation User Equipment supporting IP multimedia call control based on SIP and SDP

Notwithstanding the provisions of the copyright related to the text of the present document, The Organizational Partners of 3GPP grant that users of the present document may freely reproduce the ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed ICS.

## A.1 Guidance for completing the ICS proforma

### A.1.1 Purposes and structure

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

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

- instructions for completing the ICS proforma;

- identification of the implementation;

- identification of the protocol;

- ICS proforma tables (for example: UE roles specific to additional capabilities, Major capabilities etc).

### A.1.2 Abbreviations and conventions

This annex does not reflect dynamic conformance requirements but static ones. In particular, a condition for support of a PDU parameter does not reflect requirements about the syntax of the PDU (i.e. the presence of a parameter) but the capability of the implementation to support the parameter.

In the sending direction, the support of a parameter means that the implementation is able to send this parameter (but it does not mean that the implementation always sends it).

In the receiving direction, it means that the implementation supports the whole semantic of the parameter that is described in the main part of this specification.

As a consequence, PDU parameter tables in this annex are not the same as the tables describing the syntax of a PDU in the reference specification, e.g. RFC 3261 [15] tables 2 and 3. It is not rare to see a parameter which is optional in the syntax but mandatory in subclause below.

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646‑7 [8].

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means “is <item description> supported by the implementation?”.

Reference column

The reference column gives reference to the relevant 3GPP core specifications and optional IMS profile documents (e.g. GSMA PRD IR.92).

Status column

The various statii used in this annex are in accordance with the rules in table A.1. The status column can also be used for IMS profile documents.

Table A.1: Key to status codes

|  |  |  |
| --- | --- | --- |
| Status code | Status name | Meaning |
| m | mandatory | the capability shall be supported. It is a static view of the fact that the conformance requirements related to the capability in the reference specification are mandatory requirements. This does not mean that a given behaviour shall always be observed (this would be a dynamic view), but that it shall be observed when the implementation is placed in conditions where the conformance requirements from the reference specification compel it to do so. For instance, if the support for a parameter in a sent PDU is mandatory, it does not mean that it shall always be present, but that it shall be present according to the description of the behaviour in the reference specification (dynamic conformance requirement). |
| o | optional | the capability may or may not be supported. It is an implementation choice. |
| n/a | not applicable | it is impossible to use the capability. No answer in the support column is required. |
| x | prohibited (excluded) | It is not allowed to use the capability. This is more common for a profile. |
| c <integer> | conditional | the requirement on the capability ("m", "o", "n/a" or "x") depends on the support of other optional or conditional items. <integer> is the identifier of the conditional expression. |
| o.<integer> | qualified optional | for mutually exclusive or selectable options from a set. <integer> is the identifier of the group of options, and the logic of selection of the options. |

Release column

The release column indicates the earliest release from which the capability or option is relevant.

Mnemonic column

The Mnemonic column contains mnemonic identifiers for each item.

Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646‑7 [8], are used for the support column:

Y or y supported by the implementation

N or n not supported by the implementation

N/A, n/a or ‑ no answer required (allowed only if the status is N/A, directly or after evaluation of a conditional status)

References to items

For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character “/”, followed by the item number in the table.

EXAMPLE: A.5/4 is the reference to the answer of item 4 in table A.5.

### A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different clauses of the ICS proforma.

## A.2 Identification of the User Equipment

Identification of the User Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

### A.2.1 Date of the statement

### A.2.2 User Equipment Under Test (UEUT) identification

UEUT name:

Hardware configuration:

Software configuration:

### A.2.3 Product supplier

Name:

Address:

Telephone number:

Facsimile number:

E-mail address:

Additional information:

### A.2.4 Client

Name:

Address:

Telephone number:

Facsimile number:

E-mail address:

Additional information:

### A.2.5 ICS contact person

Name:

Telephone number:

Facsimile number:

E-mail address:

Additional information:

## A.3 Identification of the protocol

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

## A.4 ICS proforma tables

NOTE: Tables A.2, A. 3A and A. 4 have been based on tables with the same number in TS 24.229 [10]. In order to facilitate traceability, table and item numbers are the same as those in the corresponding tables in TS 24.229 [10].

### A.4.1 Roles

Table A.2: Roles

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | UE roles | Ref. | Status | Release | Support |
| 1 | User agent | 24.229 [10], A.1.3  RFC 3261 [15] | m | Rel-5 |  |

Table A.3A: UE roles specific to additional capabilities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | UE roles | Ref. | Status | Release | Mnemonic | Support |
| 50 | Multimedia telephony service participant | 24.173 [55] | o | Rel-8 | pc\_MultimediaTelephonyService |  |
|  |  | IR.92 [83], 2.2.1 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 61 | SM-over-IP sender | 24.341 [66] | o | Rel-8 | pc\_SMS\_IP\_MO |  |
|  |  | IR.92 [83], 2.5 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 62 | SM-over-IP receiver | 24.341 [66] | o | Rel-8 | pc\_SMS\_IP\_MT |  |
|  |  | IR.92 [83], 2.5 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 63 | Void |  |  |  |  |  |
| 64 | Concatenated SM-over-IP sender | 23.040 [94], 9.2.3.24.1 | o | Rel-8 | pc\_Concatenated\_SMS\_IP\_MO |  |
| 65 | Concatenated SM-over-IP receiver | 23.040 [94], 9.2.3.24.1 | o | Rel-8 | pc\_Concatenated\_SMS\_IP\_MT |  |

### A.4.2 ICS related to SIP

#### A.4.2.1 Major capabilities

Prerequisite: A.2/1 - - user agent role.

Table A.4: Major capabilities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Does the implementation support | Ref. | Status | Release | Mnemonic | Support |
|  | Capabilities within main protocol |  |  |  |  |  |
| 2B | initiating a session? | 24.229 [10], A.2.1.2;  RFC 3261 [15], 13 | o | Rel-5 | pc\_InitiateSession |  |
| 2C | initiating a session which require local and/or remote resource reservation? | 24.229 [10], A.2.1.2;  RFC 3262 [27] UE is capable of obtaining location information | c43 | Rel-8 |  |  |
|  | **Extensions** |  |  |  |  |  |
| 16 | integration of resource management and SIP? (use of preconditions) | 24.229 [10], A.2.1.2;  RFC 3312 [26] | C44 | Rel-8 | pc\_Preconditions |  |
|  |  | IR.92 [83], 2.4.1 | m |  |  |  |
|  |  | NG.114 [96], 2.3.5 | m | Rel-15 |  |  |
| 53 | obtaining and using GRUUs in the Session Initiation Protocol (SIP) | 24.229 [10], A.2.1.2 | m (Note 1) | Rel-7 | pc\_IMS\_GRUUsInSIP |  |
|  | **Conditions/Options** |  |  |  |  |  |
| c43: IF A.4/2B THEN o ELSE n/a - - initiating sessions.  c44: IF A.4/2C THEN m ELSE o - - initiating a session which require local and/or remote resource reservation. | | | | | | |
| NOTE 1: If a UE is unable to become engaged in a service that potentially requires the ability to identify and interact with a specific UE even when multiple UEs share the same single Public User Identity then the UE support can be " o" instead of " m". Examples include telemetry applications, where point-to-point communication is desired between two users. | | | | | | |

#### A.4.2.2 Void

#### A.4.2.3 Security

Table A.6a: Security scheme

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Security scheme | Reference | Status | Release | Mnemonic | Support |
| 1 | GIBA | 24.229 [10] | o.1 | Rel-8 | pc\_IMS\_GIBA\_Sec |  |
| 2 | IMS security (IMS AKA plus IPsec ESP) | 24.229 [10] | o.1 | Rel-8 | pc\_IMS\_Sec |  |
|  |  |  | m | Rel-15 |  |  |
| 3 | GBA for XCAP authentication | 33.220 [82] 4.5; 33.222 [63]; 24.109 [64] | o.2 | Rel-8 | pc\_HttpGBAAuthentication |  |
| 4 | HTTP Digest for XCAP authentication | RFC 2617 [65] | o.2 | Rel-8 | pc\_HttpDigestAuthentication |  |
| 5 | SIP Digest without TLS | 33.203 [12] | o.3 | Rel-8 | pc\_SIP\_Digest |  |
| 6 | SIP Digest with TLS | 33.203 [12] | o.3 | Rel-8 | pc\_SIP\_Digest\_TLS |  |
| 7 | NASS-IMS-bundled authentication | 33.203 [12] | o.3 | Rel-8 | pc\_NASS\_IMS |  |
|  | **Conditions/Options** |  |  |  |  |  |
| o.1 | At least one of these options has to be supported if A.18/1 or A18/4 | | |  |  |  |
| o.2 | At least one of these options has to be supported if the UE supports XCAP | | |  |  |  |
| o.3 | At least one of these options has to be supported if A.18/3 | | |  |  |  |

NOTE: Support of GPRS-IMS-Bundled authentication (GIBA) is considered as an interim security solution for IMS security (mandatory requirement as specified in TS 24.229 [10]). IMS security refer to IMS AKA plus IPsec ESP as specified in TS 24.229 [10].

#### A.4.2.4 Addressing

Table A.7: IP address format

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | IP address format | Ref. | Status | Release | Mnemonic | Support |
| 1 | IPv4 | 23.221 [13], 5.1 | o | Rel-5 | pc\_IPv4 |  |
| 2 | IPv6 | 23.221 [13], 5.1 | m | Rel-5 | pc\_IPv6 |  |
| NOTE 1: For testing purposes, at least one of these IP address format has to be supported by the UE | | | | | | |

#### A.4.2.5 SIP Compression

Table A.8: SIP Compression

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item |  | Ref. | Status | Release | Mnemonic | Support |
| 1 | Void |  |  |  |  |  |
| 2 | Void |  |  |  |  |  |
| 3 | Void |  |  |  |  |  |
| 4 | Void |  |  |  |  |  |
| 5 | Indicate the willingness to receive the responses and requests compressed from initial REGISTER onwards by using the " comp=sigcomp" parameter | 24.229 [10], 8.1.1 | o | Rel-5 | pc\_IndicateSigcomp |  |

### A.4.3 Void

### A.4.4 Void

### A.4.5 Additional information

Table A.12: Additional information

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Additional information | Reference | Status | Release | Mnemonic | Support |
| 1 | Void |  |  |  |  |  |
| 2 | Void |  |  |  |  |  |
| 3 | Void |  |  |  |  |  |
| 4 | UE capable of being configured to initiate Dedicated PDP Context | 24.229 [10], 9.2.1 | o | Rel-5 | pc\_InitiatesDedicatedPDPContext |  |
| 5 | UE capable of being configured to initiate P-CSCF discovery via PCO | 24.229 [10], 9.2.1 | o | Rel-5 | pc\_InitiateP\_CSCFDiscovery\_viaPCO |  |
| 6 | Void |  |  |  |  |  |
| 7 | UE capable of being configured to initiate P-CSCF discovery via DHCPv6 | 24.229 [10], 9.2.1 | o | Rel-5 | pc\_InitiateP\_CSCFDiscovery\_viaDHCPv6 |  |
| 8 | UE supports P-CSCF discovery via PCO | 24.229 [10], 9.2.1 | o | Rel-5 | pc\_P\_CSCFDiscovery\_viaPCO |  |
| 9 | Void |  |  |  |  |  |
| 10 | UE supports P-CSCF discovery via DHCPv6 | 24.229 [10], 9.2.1 | o | Rel-5 | pc\_P\_CSCFDiscovery\_viaDHCPv6 |  |
| 11 | Void |  |  |  |  |  |
| 12 | UE capable of initiating a bidirectional voice session over IMS | 24.229 [10], 5.1.6 | o | Rel-5 | pc\_BidirecVoiceOverIMS |  |
| 13 | Void |  |  |  |  |  |
| 14 | Void |  |  |  |  |  |
| 15 | Void |  |  |  |  |  |
| 16 | UE Supports " IPv6 address with embedded IPv4 address" in PCO IE | 23.981 [18], 5.2.1 | o | Rel-6 |  |  |
| 17 | UE Supports IPv4 address in PCO IE | 23.981 [18], 5.2.1 | o | Rel-6 |  |  |
| 18 | Void |  |  |  |  |  |
| 19 | UE supports UI capable of showing user notification for Message Waiting Indication | 24.173 [55], Annex F | o | Rel-7 |  |  |
| 20 | Void |  |  |  |  |  |
| 21 | Void |  |  |  |  |  |
| 22 | Void |  |  |  |  |  |
| 23 | Void |  |  |  |  |  |
| 24 | UE supports no reply timer setting | 24.604 [68], 4.9.1.4 | o | Rel-8 |  |  |
|  |  | IR.92 [83], 2.3.8 | m |  |  |  |
| 25 | UE supports sending DTMF events over RTP | 26.114 [56], Annex G | o | Rel-7 |  |  |
|  |  | IR.92 [83], 3.3 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 26 | Void |  |  |  |  |  |
| 27 | UE is capable of obtain ing location information | 24.229 [10] 4.7, 36.509 [79] 4.1, 5.5.2, 34.109 [78] 5.4.2 | o | Rel-9 | pc\_IMS\_Geolocation |  |
| 28 | Void |  |  |  |  |  |
| 29 | UE supports emergency speech call over 1xRTT | C.S0005-E [74] | o |  | pc\_CS\_Em\_Call\_in\_1xRTT |  |
| 30 | Void |  |  |  |  |  |
| 31 | UE supports end-to-access-edge media security using SDES | 24.229 [10], 4.2.B.2 | o | Rel-9 |  |  |
| 32 | UE supports video media feature tag | 24.229 [10], 5.1.1.2.1, 5.1.3.1, 5.1.4 | o | Rel-13 | pc\_IMS\_Video\_FeatureTag |  |
|  |  | IR.94 [75], 2.2 | m |  |  |  |
|  |  | NG.114 [96] | m  NOTE 1 | Rel-15 |  |  |
| 33 | UE supports Communication Hold during emergency call | 23.167 [76], 7.1.1 | o | Rel-9 | pc\_CommunicationHold\_DuringEmergencyCall |  |
| 34 | UE indicates g.3gpp.srvcc-alerting media feature tag in INVITE request or 180 (Ringing) response | 24.237 [77], 12.2.3B.1 | o | Rel-10 | pc\_IMS\_SRVCCAlert |  |
| 35 | Void |  |  |  |  |  |
| 36 | UE indicates g.3gpp.ps2cs-srvcc-orig-pre-alerting media feature tag in INVITE request | 24.237 [77] 6A.2.2.2 | o | Rel-12 | pc\_BSRVCC |  |
| 37 | UE indicates OMA-TS-XDM\_MO-V1\_1-20080627-A.doc, section 5.2.8 "Node: /<X>/ AAUTHNAME" is configured | 24.623 [81], Annex B.2 | o | Rel-8 | pc\_XCAP\_UsernameIsConfiguredInUE |  |
| 38 | The UE use the default public user identity received in P-Associated -URI header in 200 OK for REGISTER as XCAP User Identity (XUI) | IR.92 [83] | m |  | pc\_XCAP\_XUIisDefaultPublicUserId |  |
|  |  | 24.623 [81] | o | Rel-8 |  |  |
| 39 | UE has the method that support IMS deregistration | 24.229 [10], 5.1.1.6 | o | Rel-5 | pc\_IMS\_Deregistration |  |
| 40 | UE supports Cs to PS SRVCC | 24.237 [77], 6.2.3 | o | Rel-11 | pc\_IMS\_CS\_PS\_SRVCC |  |
| 41 | UE supports Cs to PS SRVCC in alerting state | 24.237 [77], 6.2.3 | o | Rel-11 | pc\_IMS\_CS\_PS\_SRVCCAlert |  |
| 42 | UE supports Cs to PS SRVCC and the MSC server assisted mid-call feature | 24.237 [77], 6.2.3 | o | Rel-11 | pc\_IMS\_CS\_PS\_SRVCCMidCall |  |
| 43 | Void |  |  |  |  |  |
| 44 | Void |  |  |  |  |  |
| 45 | UE supports early media | 24.229 [10], 5.1.3 | o | Rel-8 | pc\_EarlyMedia |  |
| 46 | UE indicates g.3gpp.accesstype media feature tag in REGISTER | 24.237 [77], 6.2.2 | c1 | Rel-11 |  |  |
| 47 | Void |  |  |  |  |  |
| 48 | Void |  |  |  |  |  |
| 49 | The UE uses XCAP without PDN connection in WLAN | IR.51 [84], 4.6 | o | Rel-11 | pc\_WLAN\_XCAP\_without\_PDN | If PICS is true, Wi-Fi access without PDN connection applies. Otherwise, EPC-integrated WLAN applies |
| 50 | The UE uses XCAP in fixed broadband access |  | o | Rel-12 | pc\_fixed\_broadband\_XCAP | In the context of the present specification, a UE supporting fixed broadband, A.18/3, shall set this PICS to true. |
| 51 | The UE uses same public user Identity for From/To as in initial REGISTER | 24.229 [10] | o | Rel-8 | pc\_Same\_IMPU |  |
|  |  | IR.92 [83], 2.2.1 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 52 | UE reattempts IMS emergency service without registration after rejection of emergency registration.  (For Rel-14, this is applicable only when the rejection indicates an anonymous emergency call support) | 23.167 [76], 4.1 | o | Rel-9 | pc\_IMS\_after\_EmReg\_rejection |  |
|  |  |  | m | Rel-14 |  |  |
| 53 | Void |  |  |  |  |  |
| 54 | UE supports IMS eCall type of emergency services over EPS | 24.229 [10], 5.1.6.11, L.2.2.6.2 | o | Rel-14 | pc\_EPS\_IMS\_eCall\_Capable |  |
| 55 | UE supports IMS eCall Only type of emergency services over EPS | 24.229 [10], 5.1.6.11, L.2.2.6.2 | o | Rel-14 | pc\_EPS\_IMS\_eCall\_Only |  |
| 56 | UE supports audio media feature tag | 24.229 [10], 5.1.1.2.1, 5.1.3.1, 5.1.4 | m | Rel-13 | pc\_IMS\_Audio\_FeatureTag |  |
|  |  | IR.92 [83], 2.2.1, 2.2.4 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 57 | UE supports Session Timer | 24.229 [10], 5.1.2A, 5.2.7.2, 5.2.7.3, 5.4.5.3 | o | Rel-6 | pc\_IMS\_Session\_Timer |  |
|  |  | IR.92 [83], 2.2.8 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 58 | UE supports enabling/disabling SMS over IMS | 27.007 [97], 8.72 | o | Rel-15 | pc\_Enable\_Disable\_SMSoverIMS |  |
| 59 | UE supports disabling preconditions | 24.229 [10], 5.1.5A | o | Rel-15 | pc\_IMS\_Disable\_Preconditions |  |
| 60 | UE uses Session Timer for its benefit alone | 24.229 [10] | o | Rel-15 | pc\_IMS\_Session\_Timer\_own\_benefit |  |
|  |  | NG.114 [96] | o |  |  |  |
|  |  | RFC 4028 [86] cl 7.2 | o |  |  |  |
| 61 | UE supports usage of re-INVITE for session refresh | 24.229 [10] | o | Rel-15 | pc\_IMS\_Session\_Timer\_reINVITE |  |
|  |  | NG.114 [96] | o |  |  |  |
|  |  | RFC 4028 [86] cl 7.2 | o |  |  |  |
| 62 | Void |  |  |  |  |  |
| 63 | UE supports IMS eCall type of emergency services over 5GS | 24.229 [10], 5.1.6.11, U.2.2.6.2 | o | Rel-16 | pc\_5GS\_IMS\_eCall\_Capable |  |
| 64 | UE supports IMS eCall Only type of emergency services over 5GS | 24.229 [10], 5.1.6.11, U.2.2.6.2 | o | Rel-16 | pc\_5GS\_IMS\_eCall\_Only |  |
| 65 | UE supports IMS emergency call over WLAN | 24.229 [10], 5.1.6, R.2.2.6 | o | Rel-13 | pc\_WLAN\_IMS\_EmergencyCall |  |
| Conditions/Options | | | | | | |
| c1: IF [73] A.4.4-1/32 THEN m ELSE o - - SC UE indicates accesstype. | | | | | | |
| NOTE 1: As an exception to NG.114 support of MTSI Video Call is optional. | | | | | | |

### A.4.6 Additional information for IPv4

Table A.13: Additional information for IPv4

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Precondition: This table is only applicable if A.7/1 IPv4 is supported | | | | | | |
| Item | Additional information for IPv4 | Reference | Status | Release | Mnemonic | Support |
| 1 | UE capable of being configured to initiate P-CSCF discovery via DHCPv4 | 23.981 [18], 5.2.1 | o | Rel-5 | pc\_InitiateP\_CSCFDiscovery\_viaDHCPv4 |  |
| 2 | UE supports P-CSCF discovery via DHCPv4 | 23.981 [18], 5.2.1 | o | Rel-5 | pc\_P\_CSCFDiscovery\_viaDHCPv4 |  |

### A.4.7 MTSI media

Table A.15: MTSI media

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Item | | Media | Reference | Status | Release | Mnemonic | Support |
| 1 | | Speech | 26.114 [56], 5.2.1 | o | Rel-7 | pc\_MTSI\_Speech |  |
|  | |  | IR.92 [83], 3.2 | m |  |  |  |
|  | |  | IR 51 [84], 3 | m |  |  |  |
|  | |  | NG.108 [87] | m |  |  |  |
|  | |  | NG.114 [96] | m | Rel-15 |  |  |
| 2 | | Speech, AMR wideband | 26.114 [56], 5.2.1 | o | Rel-7 | pc\_MTSI\_Speech\_AMRWB |  |
|  | |  | IR.51 [84], 3 | m |  |  |  |
|  | |  | IR.92 [83], 3.2 | m |  |  |  |
|  | |  | NG.114 [96] | m | Rel-15 |  |  |
| 3 | | Video | 26.114 [56], 5.2.2 | o | Rel-7 | pc\_MTSI\_Video |  |
|  | |  | IR.94 [75], 3.3 | m |  |  |  |
|  | |  | IR.51 [84], 3 | m |  |  |  |
|  | |  | NG.114 [96] | m  NOTE 1 | Rel-15 |  |  |
| 4 | | Video, H.263 Profile 3 | 26.114 [56], 5.2.2 | o | Rel-7 |  |  |
| 5 | | Video, MPEG-4 | 26.114 [56], 5.2.2 | o | Rel-7 |  |  |
| 6 | | Video, H.264 | 26.114 [56], 5.2.2 | o | Rel-7 |  |  |
| 7 | | Void |  |  |  |  |  |
| 8 | | Void |  |  |  |  |  |
| 9 | | Video codec H.264 CBP Level 1.2 | 26.114 [56], 5.2.2 | o | Rel-8 | pc\_VideoCodecH264CBP |  |
|  | |  | IR.94 [75], 3.3 | m |  |  |  |
|  | |  | IR.51 [84], 3 | m |  |  |  |
| 10 | | Speech, EVS | 26.114 [56] | o | Rel-12 | pc\_MTSI\_Speech\_EVS |  |
|  | |  | NG.114 [96] | m | Rel-15 |  |  |
| 11 | | Video codec H.265 (HEVC), Main Profile, Main Tier, Level 3.1 | 26.114 [56], 5.2.2 | m | Rel-15 | pc\_VideoCodecH265Lv31 |  |
|  | |  | NG.114 [96] | m  NOTE 1 | Rel-15 |  |  |
| 12 | | Video codec H.264 (AVC) CHP Level 3.1 | 26.114 [56], 5.2.2 | o | Rel-15 | pc\_VideoCodecH264CHPLv31 |  |
|  | |  | NG.114 [96] | m  NOTE 1 | Rel-15 |  |  |
| 13 | | Video codec H.264 (AVC) CBP Level 3.1 | 26.114 [56], 5.2.2 | m | Rel-15 | pc\_VideoCodecH264CBPLv31 |  |
|  | |  | NG.114 [96] | m  NOTE 1 | Rel-15 |  |  |
| NOTE 1: As an exception to NG.114 support of MTSI Video Call is optional. | | | | | | | |

### A.4.8 MTSI supplementary services

Table A.16: MTSI supplementary services

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Service | Reference | Status | Release | Mnemonic | Support |
| 1 | Originating Identification Presentation | 24.173 [55], Annex A | o | Rel-7 | pc\_MTSI\_OIP |  |
|  |  | IR.92 [83], 2.3 | m |  |  |  |
|  |  | IR.51 [84], 2.3 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 2 | Originating Identification Restriction | 24.173 [55], Annex A | o | Rel-7 | pc\_MTSI\_OIR |  |
|  |  | IR.92 [83], 2.3 | m |  |  |  |
|  |  | IR.51 [84], 2.3 | m |  |  |  |
|  |  | NG.108 [87] | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 2A | Originating Identification Restriction - Configuration | 24.173 [55], Annex A | o | Rel-7 | pc\_MTSI\_OIR\_C |  |
|  |  | IR.92 [83], 2.3 | o |  |  |  |
|  |  | NG.114 [96] | o | Rel-15 |  |  |
| 3 | Terminating Identification Presentation | 24.173 [55], Annex B | o | Rel-7 | pc\_MTSI\_TIP |  |
|  |  | IR.92 [83], 2.3 | m |  |  |  |
|  |  | IR.51 [84], 2.3 | m |  |  |  |
|  |  | NG.114 [96] | o | Rel-15 |  |  |
| 4 | Terminating Identification Restriction | 24.173 [55], Annex B | o | Rel-7 | pc\_MTSI\_TIR |  |
|  |  | IR.92 [83], 2.3 | m |  |  |  |
|  |  | IR.51 [84], 2.3 | m |  |  |  |
|  |  | NG.108 [87] | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 4A | Terminating Identification Restriction - Configuration | 24.173 [55], Annex A | o | Rel-7 | pc\_MTSI\_TIR\_C |  |
|  |  | IR.92 [83], 2.3 | o |  |  |  |
|  |  | NG.114 [96] | o | Rel-15 |  |  |
| 5 | Communication Diversion | 24.173 [55], Annex C | o | Rel-7 | pc\_MTSI\_CommDivert |  |
|  |  | IR.92 [83], 2.3 | m |  |  |  |
|  |  | IR.51 [84], 2.3 | m |  |  |  |
|  |  | NG.108 [87] | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 6 | Communication Hold | 24.173 [55], Annex D | o | Rel-7 | pc\_MTSI\_CommHold |  |
|  |  | IR.92 [83], 2.3 | m |  |  |  |
|  |  | IR.51 [84], 2.3 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 7 | Incoming Communication Barring | 24.173 [55], Annex E | o | Rel-7 | pc\_MTSI\_Incoming\_CB |  |
|  |  | IR.92 [83], 2.3 | m |  |  |  |
|  |  | IR.51 [84], 2.3 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 8 | Message Waiting Indication | 24.173 [55], Annex F | o | Rel-7 | pc\_MTSI\_MessageWait |  |
|  |  | IR.92 [83], 2.3 | m |  |  |  |
|  |  | IR.51 [84], 2.3 | m |  |  |  |
|  |  | NG.108 [87] | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 9 | Conference | 24.173 [55], Annex G | o | Rel-7 | pc\_MTSI\_Conference |  |
|  |  | IR.92 [83], 2.3 | m |  |  |  |
|  |  | IR.51 [84], 2.3 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 10 | Void |  |  |  |  |  |
| 11 | Explicit Communication Transfer - consultative transfer | 24.173 [55], Annex H | o | Rel-7 | pc\_IMS\_ExplicitConsultativeTransfer |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 12 | Anonymous Communication Rejection | 24.173 [55], Annex E | o | Rel-7 | pc\_MTSI\_ACR |  |
| 13 | Communication Waiting | 24.615 [69] | o | Rel-7 | pc\_MTSI\_CommWaiting |  |
|  |  | IR.92 [83], 2.3 | m |  |  |  |
|  |  | IR.51 [84], 2.3 | m |  |  |  |
|  |  | NG.108 [87] | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 14 | Three way session | 24.147 [19] | o | Rel-8 | pc\_IMS\_TWS |  |
|  |  | IR.92 [83], 2.3 | m |  |  |  |
|  |  | IR.51 [84], 2.3 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 15 | Outgoing Communication Barring | 24.173 [55], Annex E | o | Rel-7 | pc\_MTSI\_Outgoing\_CB |  |
|  |  | IR.92 [83], 2.3 | m |  |  |  |
|  |  | IR.51 [84], 2.3 | m |  |  |  |
|  |  | NG.114 [96] | m | Rel-15 |  |  |
| 16 | Void |  |  |  |  |  |
| 17 | Void |  |  |  |  |  |
| 18 | SIP based user configuration | 24.238 [85], 432 | o | Rel-7 | pc\_SIP\_Based\_UserConfiguration |  |
| 19 | USSI | 24.390 [90] | o | Rel-12 | pc\_USSI |  |
|  |  | IR.92 [83], Annex D | o |  |  |  |
|  |  | NG.114 [96] | o | Rel-15 |  |  |

### A.4.9 MTSI media change

Table A.17: MTSI media change

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Media change | Ref. | Status | Release | Mnemonic | Support |
| 1 | Text, add video remove video |  | o | Rel-7 |  |  |

### A.4.10 UE Implementation Types

Table A.18: UE Access Technologies

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | UE Access Technologies | Reference | Status | Release | Mnemonic | Support |
| 1 | E-UTRA | 36.101 [70] | o | Rel-8 | pc\_eFDD or pc\_eTDD, both as defined in TS 36.523-2 [73] Table A.4.1-1 |  |
| 2 | UTRA | 21.904 [71], 5 | o | R99 | pc\_UTRA, as defined in TS 36.523-2 [73] Table A.4.1-1 |  |
| 3 | Fixed Broadband | 24.229 [10], Annex E | o | Rel-7 | pc\_FixedBroadband |  |
| 4 | WLAN | IEEE Std 802.11 | o |  | pc\_WLAN |  |
| 5 | NR | 38.101-1 [91], 38.101-2 [92] | o | Rel-15 | pc\_NG\_RAN\_NR as defined in TS 38.508-2 [93] Table A.4.1-3 |  |

### A.4.11 Special Conformance Testing Functions

Table A.19: Special Conformance Testing Functions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Special Conformance Testing Functions** | **Ref.** | **Release** | **Mnemonic** | **Support** |
| 1 | Update UE Location Information | 34.109 [78], 5.4.2  36.509 [79], 5.5.2 | Rel-10 | See 36.523-2 [73] |  |

### A.4.12 NG.102

Table A.20: NG.102 capabilities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item** |  | **Ref.** | **Status** | **Release** | **Mnemonic** | **Support** |
| 1 | Combined Registration E-UTRA | NG.102 [89] | o | n/a | pc\_NG102\_Combined\_Registration\_EUTRA |  |
| 2 | Dual Registration E-UTRA | NG.102 [89] | o | n/a | pc\_NG102\_Dual\_Registration\_EUTRA |  |
| 3 | Combined Registration WLAN | NG.102 [89] | o | n/a | pc\_NG102\_Combined\_Registration\_WLAN |  |
| 4 | Dual Registration WLAN | NG.102 [89] | o | n/a | pc\_NG102\_Dual\_Registration\_WLAN |  |
| 5 | Voice Call after combined registration E-UTRA | NG.102 [89] | o | n/a | pc\_NG102\_Call\_Combined\_Registration\_EUTRA |  |
| 6 | Voice call after dual registration E-UTRA | NG.102 [89] | o | n/a | pc\_NG102\_Call\_Dual\_Registration\_EUTRA |  |
| 7 | Voice Call after combined registration WLAN | NG.102 [89] | o | n/a | pc\_NG102\_Call\_Combined\_Registration\_WLAN |  |
| 8 | Voice call after dual registration WLAN | NG.102 [89] | o | n/a | pc\_NG102\_Call\_Dual\_Registration\_WLAN |  |
| 9 | RCS chat after combined registration E-UTRA | NG.102 [89] | o | n/a | pc\_NG102\_Chat\_Combined\_Registration\_EUTRA |  |
| 10 | RCS chat after dual registration E-UTRA | NG.102 [89] | o | n/a | pc\_NG102\_Chat\_Dual\_Registration\_EUTRA |  |
| 11 | RCS chat after combined registration WLAN | NG.102 [89] | o | n/a | pc\_NG102\_Chat\_Combined\_Registration\_WLAN |  |
| 12 | RCS chat after dual registration WLAN | NG.102 [89] | o | n/a | pc\_NG102\_Chat\_Dual\_Registration\_WLAN |  |

### A.4.13 NG.114 versions

Table A.21: NG.114 versions

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item** |  | **Ref.** | **Status** | **Release** | **Mnemonic** | **Support** |
| 1 | Version 1.0 as of 07 August 2020 | NG.114 v1.0 [96] | o | n/a | pc\_NG114\_v1\_0 |  |
| 2 | Version 2.0 as of 07 August 2021 | NG.114 v2.0 [98] | o | n/a | pc\_NG114\_v2\_0 |  |

### A.4.14 NG.114 capabilities

Table A.22: NG.114 capabilities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item** |  | **Ref.** | **Status** | **Release** | **Mnemonic** | **Support** |
| 1 | mmtel ICSI value | NG.114 v1.0 [96] | m | n/a | pc\_NG114\_v1\_0\_mmtel |  |
| 2 | audio feature tag | NG.114 v1.0 [96] | m | n/a | pc\_NG114\_v1\_0\_audio |  |
| 3 | video feature tag | NG.114 v1.0 [96] | m | n/a | pc\_NG114\_v1\_0\_video |  |
| 4 | Void |  |  |  |  |  |
| 5 | Void |  |  |  |  |  |
| 6 | Void |  |  |  |  |  |
| 7 | Void |  |  |  |  |  |
| 8 | Annex C.3 default configuration for voice exempt | NG.114 v2.0 [98] | m | n/a | pc\_NG114\_v1\_0\_default\_config\_voice\_exempt |  |
| 9 | Annex C.3 default configuration for video exempt | NG.114 v2.0 [98] | m | n/a | pc\_NG114\_v2\_0\_default\_config\_video\_exempt |  |
| 10 | Annex C.3 default configuration for EVS/Br | NG.114 v1.0 [96] | m | n/a | pc\_NG114\_v1\_0\_default\_config\_evs\_br |  |
| 11 | Annex C.3 default configuration for EVS/Bw | NG.114 v1.0 [96] | m | n/a | pc\_NG114\_v1\_0\_default\_config\_evs\_bw |  |
| 12 | Void |  |  |  |  |  |
| 13 | Void |  |  |  |  |  |
| 14 | Forking behavior | NG.114 v1.0 [96] | m | n/a | pc\_NG114\_v1\_0\_forking |  |
| 15 | EVS Configuration B0 | NG.114 v1.0 [96] | o |  | pc\_NG114\_v1\_0\_EVS\_B0 |  |
| 16 | EVS Configuration B1 | NG.114 v1.0 [96] | o |  | pc\_NG114\_v1\_0\_EVS\_B1 |  |
| 17 | EVS Configuration B2 | NG.114 v1.0 [96] | o |  | pc\_NG114\_v1\_0\_EVS\_B2 |  |
| 18 | EVS Configuration A1 | NG.114 v1.0 [96] | o |  | pc\_NG114\_v1\_0\_EVS\_A1 |  |

Annex B (informative):  
Change history

| **Meeting-1st-Level** | **Doc-1st-Level** | **CR** | **Rev** | **Subject** | **Cat** | **Version-Current** | **Version-New** | **Doc-2nd-Level** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| RP-31 | RP-060053 | - | - | Update to version 1.0.0 and present to RAN#31 for information | - | 0.0.1 | 1.0.0 | R5-060523 |
| - | - | - | - | Update to version 2.0.0 during RAN5#31 e-mail agreement procedure | - | 1.0.0 | 2.0.0 | R5-061399 |
| RP-32 | RP-060320 | - | - | MCC Editorial clean up version 2.0.1 - and present to RAN#32 for approval to go under revision control (as version 5.0.0) | - | 2.0.0 | 2.0.1 | - |
| - | - | - | - | Update to version 5.0.0 after RAN#32 | - | 2.0.1 | 5.0.0 | - |
| RP-33 | RP-060565 | 0001 | - | Applicability for new P-CSCF Discovery List test cases | F | 5.0.0 | 5.1.0 | R5-062365 |
| RP-33 | RP-060565 | 0002 | - | CR to 34.229-2: Update applicability table for IMSCC test | F | 5.0.0 | 5.1.0 | R5-062026 |
| RP-34 | RP-060746 | 0003 | - | Updating of test cases to cover both IMS support and early IMS security scenarios, ICS part | F | 5.1.0 | 5.2.0 | R5-063528 |
| RP-34 | RP-060746 | 0004 | - | ICS part for new registration test cases 8.5, 8.6 and 8.7 for early IMS security | F | 5.1.0 | 5.2.0 | R5-063527 |
| RP-34 | RP-060746 | 0005 | - | Removal of MO Call - 488 not accepted here for rel 5, ICS part | F | 5.1.0 | 5.2.0 | R5-063331 |
| RP-34 | RP-060746 | 0006 | - | Production of pointer version 5.2.0 of TS 34.229-2 with no technical contents | F | 5.1.0 | 5.2.0 | R5-063292 |
| RP-34 | RP-060748 | 0007 | - | Update to 34.229-2 : Major capabilities | F | 5.1.0 | 6.0.0 | R5-063571 |
| RP-35 | RP-070089 | 0008 | - | IMS security and early IMS security capability update | F | 6.0.0 | 6.1.0 | R5-070426 |
| RP-35 | RP-070089 | 0009 | - | Removal of applicability statements for IMS test cases 7.7 and 7.8 | F | 6.0.0 | 6.1.0 | R5-070330 |
| RP-36 | RP-070362 | 0010 |  | Applicability of IMS TC 13.4 | F | 6.1.0 | 6.2.0 | R5-071060 |
| RP-36 | RP-070362 | 0011 |  | Coding options for the IPv4 address in PCO IE | F | 6.1.0 | 6.2.0 | R5-071438 |
| RP-36 | RP-070362 | 0013 |  | Applicability of Call Control TCs | F | 6.1.0 | 6.2.0 | R5-071507 |
| RP-37 | RP-070607 | 0014 | - | Applicability of re- and de-registration TCs for early IMS | F | 6.2.0 | 6.3.0 | R5-072115 |
| RP-38 | RP-070874 | 0017 |  | Production of 34.229-2 pointer version in Rel-6 pointing to Rel-7 version | F | 6.3.0 | 6.4.0 | R5-073279 |
| RP-38 | RP-070882 | 0015 |  | Applicability of new MTSI MO Call and Call Hold test cases | F | 6.3.0 | 7.0.0 | R5-073445 |
| RP-38 | RP-070882 | 0016 |  | Add MTSI media capabilities | F | 6.3.0 | 7.0.0 | R5-073096 |
| RP-39 | RP-080113 | 0018 |  | Applicability for new MTSI test cases 15.12, 15.13 and 15.23 | F | 7.0.0 | 7.1.0 | R5-080597 |
| RP-39 | RP-080113 | 0019 |  | Applicability for MTSI test case MO MTSI Text call | F | 7.0.0 | 7.1.0 | R5-080562 |
| RP-39 | RP-080114 | 0020 |  | Applicability for MTSI test case Speech AMR, indicate all codec modes | F | 7.0.0 | 7.1.0 | R5-080081 |
| RP-39 | RP-080114 | 0021 |  | Applicability for MTSI test case Speech AMR-WB, indicate all codec modes | F | 7.0.0 | 7.1.0 | R5-080083 |
| RP-39 | RP-080114 | 0022 |  | Applicability for MTSI test case MT Video, add speech remove speech | F | 7.0.0 | 7.1.0 | R5-080590 |
| RP-39 | RP-080114 | 0023 |  | Update SDP applicability tables | F | 7.0.0 | 7.1.0 | R5-080578 |
| RP-39 | RP-080114 | 0024 |  | Update references in TS 34.229-2 | F | 7.0.0 | 7.1.0 | R5-080090 |
| RP-39 | RP-080114 | 0025 |  | Update key to status codes | F | 7.0.0 | 7.1.0 | R5-080091 |
| RP-39 | RP-080114 | 0026 |  | Addition of Applicability Statement for new MTSI test cases | F | 7.0.0 | 7.1.0 | R5-080603 |
| RP-40 | RP-080376 | 0027 |  | Applicability statements of new MTSI test cases | F | 7.1.0 | 7.20 | [R5-081500](file:///C:\ISI\RAN5\isi_prod\Tdoc\R5-081500.zip) |
| RP-40 | RP-080376 | 0028 |  | Media change capabilities | F | 7.1.0 | 7.20 | [R5-081084](file:///C:\ISI\RAN5\isi_prod\Tdoc\R5-081084.zip) |
| RP-40 | RP-080376 | 0029 |  | Applicability for new MTSI test case MT MTSI Speech call | F | 7.1.0 | 7.20 | [R5-081085](file:///C:\ISI\RAN5\isi_prod\Tdoc\R5-081085.zip) |
| RP-40 | RP-080376 | 0030 |  | Applicability for new MTSI test case MT MTSI Video call | F | 7.1.0 | 7.20 | [R5-081086](file:///C:\ISI\RAN5\isi_prod\Tdoc\R5-081086.zip) |
| RP-40 | RP-080376 | 0031 |  | Applicability for new MTSI test case Speech AMR indicate selective codec modes | F | 7.1.0 | 7.20 | [R5-081088](file:///C:\ISI\RAN5\isi_prod\Tdoc\R5-081088.zip) |
| RP-40 | RP-080376 | 0032 |  | Applicability for new MTSI test case Speech AMR-WB indicate selective codec modes | F | 7.1.0 | 7.20 | [R5-081089](file:///C:\ISI\RAN5\isi_prod\Tdoc\R5-081089.zip) |
| RP-40 | RP-080376 | 0033 |  | Applicability for new MTSI test case MT Speech add video remove video | F | 7.1.0 | 7.20 | [R5-081090](file:///C:\ISI\RAN5\isi_prod\Tdoc\R5-081090.zip) |
| RP-40 | RP-080376 | 0034 |  | Applicability for new MTSI test case MT Speech add video remove speech | F | 7.1.0 | 7.20 | [R5-081091](file:///C:\ISI\RAN5\isi_prod\Tdoc\R5-081091.zip) |
| RP-41 | RP-080564 | 0035 |  | Update applicabilities for clause 12 test cases | F | 7.2.0 | 7.3.0 | R5-083134 |
| RP-41 | RP-080564 | 0036 |  | Update applicabilities for clause 17 test cases | F | 7.2.0 | 7.3.0 | R5-083135 |
| RP-41 | RP-080564 | 0037 |  | Update applicabilities for clause 16 test cases | F | 7.2.0 | 7.3.0 | R5-083136 |
| RP-41 | RP-080564 | 0038 |  | Remove table for MTSI media change | F | 7.2.0 | 7.3.0 | R5-083137 |
| RP-41 | RP-080564 | 0039 |  | Correct applicability for test case 14.2 | F | 7.2.0 | 7.3.0 | R5-083452 |
| RP-41 | RP-080564 | 0040 |  | Applicability statements of new MTSI test cases | F | 7.2.0 | 7.3.0 | R5-083560 |
| RP-41 | RP-080557 | 0041 |  | Removal of reference to IMS test case 13.4 | F | 7.2.0 | 7.3.0 | R5-083586 |
| RP-42 | RP-080966 | 0042 |  | Applicability statements of new MTSI test cases | F | 7.3.0 | 8.0.0 | R5-085049 |
| RP-42 | RP-080966 | 0043 |  | Remove applicabilities for non MTSI related call setup test cases | F | 7.3.0 | 8.0.0 | R5-085352 |
| RP-42 | RP-080966 | 0044 |  | Remove applicabilities for non mandatory use cases | F | 7.3.0 | 8.0.0 | R5-085434 |
| RP-42 | RP-080966 | 0045 |  | Update of applicability of MTSI test cases for adding/removing media | F | 7.3.0 | 8.0.0 | R5-085444 |
| RP-43 | RP-090205 | 0046 |  | Update of TS 34.229-2 from Rel-7 to Rel-8 | F | 7.3.0 | 8.0.0 | R5-090764 |
| RP-43 | RP-090214 | 0047 |  | Applicability statements of new MTSI test cases | F | 8.0.0 | 8.1.0 | R5-090346 |
| RP-43 | RP-090214 | 0048 |  | Applicability statements of new MTSI test cases | F | 8.0.0 | 8.1.0 | R5-090624 |
| RP-43 | RP-090214 | 0049 |  | Remove applicabilities for non MTSI related call setup test cases (2nd) | F | 8.0.0 | 8.1.0 | R5-090626 |
| RP-43 | RP-090214 | 0050 |  | Add applicabilities for new clause 16 test cases | F | 8.0.0 | 8.1.0 | R5-090627 |
| RP-43 | RP-090214 | 0051 |  | Remove applicabilities for removed clause 16 test cases | F | 8.0.0 | 8.1.0 | R5-090628 |
| RP-43 | RP-090214 | 0052 |  | Add applicability for new clause 17 test case | F | 8.0.0 | 8.1.0 | R5-090629 |
| RP-44 | RP-090433 | 0053 |  | Addition of PICS for support of UI Message Waiting Indication | F | 8.1.0 | 8.2.0 | R5-092218 |
| RP-45 | RP-090794 | 0054 |  | Update table A.318 SDP types | F | 8.2.0 | 8.3.0 | R5-094354 |
| RP-46 | RP-091116 | 0055 |  | Update applicability for test cases 14.1 and 14.2 | F | 8.3.0 | 8.4.0 | R5-095818 |
| RP-46 | RP-091118 | 0056 |  | Update applicability for test case 12.2 | F | 8.3.0 | 8.4.0 | R5-095820 |
| RP-46 | RP-091118 | 0057 |  | Update table A.12 | F | 8.3.0 | 8.4.0 | R5-096181 |
| RP-47 | RP-100155 | 0058 | - | Addition of applicability for new SMS over IMS test case | F | 8.4.0 | 8.5.0 | R5-100083 |
| RP-47 | RP-100155 | 0059 | - | Add capability for SMS over IP | F | 8.4.0 | 8.5.0 | R5-100510 |
| RP-47 | RP-100155 | 0060 | - | Add applicability for SMS test cases | F | 8.4.0 | 8.5.0 | R5-100511 |
| RP-47 | - | - | - | Moved to v9.0.0 with no change | - | 8.5.0 | 9.0.0 | - |
| RP-48 | RP-100511 | 0061 | - | Adding capabilities to TS 34.229-2 for VoLTE profile alignment | F | 9.0.0 | 9.1.0 | R5-103856 |
| RP-49 | RP-100985 | 0063 | - | Introducing new MTSI test cases for CF and CW | F | 9.1.0 | 9.2.0 | R5-104293 |
| RP-49 | RP-100986 | 0064 | - | Add radio capabilities | F | 9.1.0 | 9.2.0 | R5-104312 |
| RP-49 | RP-100986 | 0065 | - | Update security scheme with GIBA | F | 9.1.0 | 9.2.0 | R5-104436 |
| RP-49 | RP-100986 | 0066 | - | Update applicability for clause 8 registration test cases | F | 9.1.0 | 9.2.0 | R5-104438 |
| RP-49 | RP-100986 | 0067 | - | Update applicability for test case 13.1 | F | 9.1.0 | 9.2.0 | R5-104439 |
| RP-49 | RP-100838 | 0068 | - | Introducing new test cases for IMS emergency registration | F | 9.1.0 | 9.2.0 | R5-104737 |
| - | - | - | - | Editorial renumbering of test cases 15.27 - 15.30 in order to align with GCF list | - | 9.1.0 | 9.2.0 | - |
| RP-50 | RP-101146 | 0072 | - | Remove applicability for test case 14.1 and 14.2 | F | 9.2.0 | 9.3.0 | R5-106488 |
| RP-50 | RP-101146 | 0071 | - | Update of applicability for MTSI test cases | F | 9.2.0 | 9.3.0 | R5-106302 |
| RP-50 | RP-101146 | 0070 | - | Remove PSS tables | F | 9.2.0 | 9.3.0 | R5-106239 |
| RP-50 | RP-101146 | 0069 | - | Add new test case 15.14a CB while roaming | F | 9.2.0 | 9.3.0 | R5-106153 |
| RP-50 | RP-101146 | 0073 | - | Update security, adressing and SIP compression tables | F | 9.2.0 | 9.3.0 | R5-106579 |
| RP-50 | RP-101156 | 0076 | - | Introducing TC 19.1.1 Basic IMS emergency call over EPS | F | 9.2.0 | 9.3.0 | R5-106591 |
| RP-50 | RP-101146 | 0075 | - | Update MTSI information | F | 9.2.0 | 9.3.0 | R5-106584 |
| RP-50 | RP-101146 | 0074 | - | Update additional information for IPv4 | F | 9.2.0 | 9.3.0 | R5-106582 |
| RP-50 | RP-101146 | 0078 | - | Update abbreviations and conventions | F | 9.2.0 | 9.3.0 | R5-106686 |
| RP-50 | RP-101146 | 0077 | - | Rel-8 IMS test case applicabilities | F | 9.2.0 | 9.3.0 | R5-106685 |
| - | - | - | - | Added email agreed R5-106685 | - | 9.3.0 | 9.3.1 | - |
| RP-51 | RP-110165 | 0079 | - | Applicability for IMS TCs updated or added to Rel-8 | F | 9.3.1 | 9.4.0 | R5-110264 |
| RP-51 | RP-110174 | 0080 | - | Introducing IMS emergency TCs 19.1.2, 19.1.4, 19.5.6 | F | 9.3.1 | 9.4.0 | R5-110270 |
| RP-51 | RP-110165 | 0081 | - | Update roles and ICS related to SIP | F | 9.3.1 | 9.4.0 | R5-110291 |
| RP-51 | RP-110165 | 0082 | - | Update applicability roles | F | 9.3.1 | 9.4.0 | R5-110292 |
| RP-51 | RP-110165 | 0083 | - | Update SIP compression table | F | 9.3.1 | 9.4.0 | R5-110293 |
| RP-51 | RP-110165 | 0084 | - | Remove SDP tables | F | 9.3.1 | 9.4.0 | R5-110294 |
| RP-51 | RP-110165 | 0085 | - | Update additional information | F | 9.3.1 | 9.4.0 | R5-110295 |
| RP-51 | RP-110165 | 0086 | - | Update UE implementation types | F | 9.3.1 | 9.4.0 | R5-110296 |
| RP-51 | RP-110165 | 0087 | - | Update applicability for test case 10.1 | F | 9.3.1 | 9.4.0 | R5-110378 |
| RP-51 | RP-110165 | 0088 | - | Update applicability for test cases 12.2, 12.13, 12.16 and 12.17 | F | 9.3.1 | 9.4.0 | R5-110379 |
| RP-51 | RP-110165 | 0089 | - | Update applicability for test cases 16.1, 16.2, 16.3 and 16.4 | F | 9.3.1 | 9.4.0 | R5-110381 |
| RP-51 | RP-110165 | 0090 | - | Applicable release upgrade for clause 6 and 7 test cases | F | 9.3.1 | 9.4.0 | R5-110401 |
| RP-51 | RP-110165 | 0091 | - | Update applicability of test cases 16.11, 16.12, 16.13, 17.2, 17.6, 17.17 and 17.18. | F | 9.3.1 | 9.4.0 | R5-110500 |
| RP-51 | RP-110165 | 0092 | - | update applicability for test cases 13.1, 13.2 and 13.3 | F | 9.3.1 | 9.4.0 | R5-110707 |
| RP-51 | RP-110174 | 0093 | - | Introduction of applicability conditions for new test cases for CT1 aspects of IMS emergency call over GPRS and EPS | F | 9.3.1 | 9.4.0 | R5-110811 |
| RP-51 | RP-110174 | 0094 | - | Applicability for new emergency test case 19.3.2 | F | 9.3.1 | 9.4.0 | R5-110812 |
| RP-51 | RP-110165 | 0095 | - | Introducing new MTSI test cases for Three Way Session and CW | F | 9.3.1 | 9.4.0 | R5-110822 |
| RP-52 | RP-110660 | 0096 | - | New IMS emergency TCs 19.5.7, 19.5.8, 19.5.9, 19.5.10 | F | 9.4.0 | 9.5.0 | R5-112175 |
| RP-52 | RP-110660 | 0097 | - | Add applicability for new test case 19.4.1 | F | 9.4.0 | 9.5.0 | R5-112497 |
| RP-52 | RP-110651 | 0098 | - | Applicability for IMS TCs updated or added to Rel-8 | F | 9.4.0 | 9.5.0 | R5-112647 |
| RP-52 | RP-110660 | 0099 | - | Introduction of applicability conditions for new test cases for CT1 aspects of IMS emergency call over GPRS and EPS | F | 9.4.0 | 9.5.0 | R5-112652 |
| RP-53 | RP-111151 | 0100 | - | Applicability of new test cases for SSAC | F | 9.5.0 | 9.6.0 | R5-113746 |
| RP-54 | RP-111591 | 0101 | - | Correction to applicability for test case 19.5.9 and 19.5.10 | F | 9.6.0 | 9.7.0 | R5-115183 |
| RP-54 | RP-111583 | 0102 | - | Update test case numbering | F | 9.6.0 | 9.7.0 | R5-115345 |
| RP-55 | RP-120195 | 0103 | - | Update to test case 12.19 | F | 9.7.0 | 9.8.0 | R5-120437 |
| RP-55 | RP-120192 | 0104 | - | Correcting applicability for test case 19.3.2 and a PICS condition | F | 9.7.0 | 9.8.0 | R5-120692 |
| RP-56 | RP-120657 | 0105 | - | Update to ICS proforma table for Additional information | F | 9.8.0 | 9.9.0 | R5-121282 |
| RP-56 | RP-120655 | 0106 | - | Removing TC 19.1.4 applicability | F | 9.8.0 | 9.9.0 | R5-121431 |
| RP-56 | RP-120655 | 0107 | - | Adding applicability for test case 19.3.3 and 19.3.4 | F | 9.8.0 | 9.9.0 | R5-121499 |
| RP-56 | RP-120649 | 0108 | - | Applicability for video test cases 12.21, 12.22. 17.1 and 17.2 | F | 9.8.0 | 9.9.0 | R5-122120 |
| RP-57 | RP-121103 | 0109 | - | Update to ICS proforma table for Additional information | F | 9.9.0 | 9.10.0 | R5-123201 |
| RP-58 | RP-121664 | 0110 | - | Update applicability for emergency test cases | F | 9.10.0 | 9.11.0 | R5-125617 |
| RP-58 | RP-121685 | 0111 | - | Update to ICS proforma table for Additional information | F | 9.11.0 | 10.0.0 | R5-126005 |
| RP-60 | RP-130625 | 0113 | - | Addition of testing function | F | 10.0.0 | 10.1.0 | R5-131165 |
| RP-60 | RP-130611 | 0114 | - | Applicability of 19.1.3a and 19.3.2a | F | 10.0.0 | 10.1.0 | R5-131876 |
| RP-60 | RP-130625 | 0115 | - | 34.229-2 specification clean up | F | 10.0.0 | 10.1.0 | R5-132012 |
| RP-61 | RP-131114 | 0116 | - | Update reference for Update UE Location Information | F | 10.1.0 | 10.2.0 | R5-133631 |
| RP-61 | RP-131102 | 0117 | - | Correction of applicability for test cases 19.1.1 and 19.3.1 | F | 10.1.0 | 10.2.0 | R5-133708 |
| RP-62 | RP-131875 | 0118 | - | Remove applicabilities for not needed test cases | F | 10.2.0 | 10.3.0 | R5-134298 |
| RP-62 | RP-131875 | 0119 | - | Update for IR.92 version 7 | F | 10.2.0 | 10.3.0 | R5-135021 |
| RP-63 | - | - | - | Upgraded to v11.0.0 without change | F | 10.3.0 | 11.0.0 | - |
| RP-63 | RP-140306 | 0120 | - | Remove applicability for test case 16.1 | F | 11.0.0 | 12.0.0 | R5-140929 |
| RP-63 | RP-140306 | 0120 | - | Remove applicability for test case 16.1 | F | 11.0.0 | 12.0.0 | R5-140929 |
| RP-63 | RP-140334 | 0121 | - | Applicability of new test cases for SSAC in connected mode | F | 11.0.0 | 12.0.0 | R5-140930 |
| RP-63 | RP-140333 | 0122 | - | Addition of new condition for bSRVCC | F | 11.0.0 | 12.0.0 | R5-140968 |
| RP-64 | RP-140815 | 0123 | - | Applicability of new test cases for the UE receiving SIP\_380 | F | 12.0.0 | 12.1.0 | R5-142959 |
| RP-64 | RP-140812 | 0124 | - | Update call hold applicability for IR.92 versions | F | 12.0.0 | 12.1.0 | R5-142960 |
| RP-65 | RP-141571 | 0125 | - | Editorial correction of the 16.4 test case title | F | 12.1.0 | 12.2.0 | R5-144130 |
| RP-65 | RP-141571 | 0126 | - | Add XCAP capabilities | F | 12.1.0 | 12.2.0 | R5-144531 |
| RP-65 | RP-141571 | 0127 | - | Editorial correction of codec table number | F | 12.1.0 | 12.2.0 | R5-144559 |
| RP-65 | RP-141596 | 0128 | - | Editorial correction of section order related to Rel-12 SSAC | F | 12.1.0 | 12.2.0 | R5-144696 |
| RP-65 | RP-141573 | 0129 | - | Addition of new applicability for SIP error handling test cases | F | 12.1.0 | 12.2.0 | R5-144697 |
| RP-65 | RP-141571 | 0130 | - | Addition of applicability statements for new IMS Video test cases | F | 12.1.0 | 12.2.0 | R5-144698 |
| RP-65 | RP-141573 | 0131 | - | Correction to applicability of test case 19.1.3b | F | 12.1.0 | 12.2.0 | R5-144749 |
| RP-66 | RP-142054 | 0132 | - | Correction to applicability of GCF WI-103 IMS Testcase 8.3 | F | 12.2.0 | 12.3.0 | R5-145157 |
| RP-66 | RP-142073 | 0133 | - | Update of Additional Information table for rSRVCC | F | 12.2.0 | 12.3.0 | R5-145751 |
| RP-66 | RP-142056 | 0134 | - | Applicability of test case 19.3.2c | F | 12.2.0 | 12.3.0 | R5-145770 |
| RP-66 | RP-142056 | 0135 | - | Correction to Applicability of GCF WI-154 IMS Emergency Call Testcases | F | 12.2.0 | 12.3.0 | R5-145778 |
| RP-67 | RP-150322 | 0136 | - | Add applicability for new GBA test case | F | 12.3.0 | 12.4.0 | R5-150537 |
| RP-67 | RP-150322 | 0137 | - | Add capability for GBA | F | 12.3.0 | 12.4.0 | R5-150712 |
| RP-67 | RP-150322 | 0138 | - | Clarification on A.12/23 vs A.12/35 | F | 12.3.0 | 12.4.0 | R5-150737 |
| RP-68 | RP-150884 | 0140 | - | Add capability for access type | F | 12.4.0 | 12.5.0 | R5-151243 |
| RP-68 | RP-150886 | 0145 | - | Correction to test case applicability 19.1.1 and 19.3.1 for location information | F | 12.4.0 | 12.5.0 | R5-151518 |
| RP-68 | RP-150884 | 0139 | 1 | Updates for GBA testing - Part2 | F | 12.4.0 | 12.5.0 | R5-151962 |
| RP-68 | RP-150884 | 0144 | 1 | Change of applicability for Testcase 8.3 | F | 12.4.0 | 12.5.0 | R5-151963 |
| RP-68 | RP-150884 | 0146 | 1 | Applicability for new TC 20.1 Mobile Originating CAT - Forking Model | F | 12.4.0 | 12.5.0 | R5-151964 |
| RP-68 | RP-150906 | 0142 | 1 | Add capability for EVS | F | 12.4.0 | 12.5.0 | R5-151969 |
| RP-68 | RP-150906 | 0143 | 1 | Add applicability for new MO EVS test case | F | 12.4.0 | 12.5.0 | R5-151970 |
| RP-69 | RP-151427 | 0149 | - | Add applicability for new MT EVS test case | F | 12.5.0 | 12.6.0 | R5-153538 |
| RP-69 | RP-151409 | 0152 | - | Rewording of PICS for video feature tag | F | 12.5.0 | 12.6.0 | R5-153680 |
| RP-69 | RP-151409 | 0148 | 1 | Correction to description of applicability of testcase 8.3 | F | 12.5.0 | 12.6.0 | R5-153767 |
| RP-69 | RP-151409 | 0153 | - | New PICS for dialog usage upon subscription to conference event package | F | 12.5.0 | 12.6.0 | R5-153790 |
| RP-69 | RP-151427 | 0151 | 1 | Add applicability for new MT EVS test case 12.25 | F | 12.5.0 | 12.6.0 | R5-153951 |
| RP-69 | RP-151409 | 0154 | 1 | Test case applicability changes due to Split of XCAP test case 15.14a | F | 12.5.0 | 12.6.0 | R5-153996 |
| RP-69 | - | - | - | update of the "non-specific references" in section 2 according to the approved R5-153582 and an action point on ETSI MCC | - | 12.5.0 | 12.6.0 | - |
| RP-70 | RP-151703 | 0158 | - | Add applicability for new MT EVS test case | F | 12.6.0 | 12.7.0 | R5-155468 |
| RP-70 | RP-151684 | 0159 | - | Remove outdated reference | F | 12.6.0 | 12.7.0 | R5-155760 |
| RP-71 | RP-160117 | 0164 | - | Removing item on subscription to conference event package | F | 12.7.0 | 12.8.0 | R5-160554 |
| RP-71 | RP-160116 | 0161 | 1 | Correction of Applicability of Test Case 8.14 by introduction of PICS for Multiple IMPU per TS 24.229 Section 5.1.1.4 | F | 12.7.0 | 12.8.0 | R5-160910 |
| RP-71 | RP-160117 | 0162 | 1 | Correction of PICS applicability for TC 15.21 and 15.21b with introduction of new PICS for Network Invitation to Conference per TS 24.147 Section 5.3.1.4.2 | F | 12.7.0 | 12.8.0 | R5-160911 |
| RP-71 | RP-160119 | 0166 | - | Applicability updates on IMS emergency call test case 19.3.2 | F | 12.7.0 | 12.8.0 | R5-160938 |
| RP-71 | RP-160117 | 0163 | 1 | Removal of outdated versions of GSMA PRD IR.92 | F | 12.7.0 | 12.8.0 | R5-160944 |
| RP-71 | RP-160096 | 0800 | 1 | Applicability of new MTSI Fixed Broadband Access test cases | F | 12.7.0 | 12.8.0 | R5-160974 |
| RP-71 | RP-160117 | 0165 | 1 | Addition of applicability statements for new OIR/TIR test cases | F | 12.7.0 | 12.8.0 | R5-160977 |
| RP-72 | RP-160831 | 0168 | - | Add applicabilities for new WLAN supplementary services test cases | F | 12.8.0 | 12.9.0 | R5-162070 |
| RP-72 | RP-160831 | 0169 | - | Add IR.51 IMS Profile for Voice, Video and SMS over Wi-Fi | F | 12.8.0 | 12.9.0 | R5-162071 |
| RP-72 | RP-160830 | 0173 | - | Add applicabilities for new Fixed Broadband Access supplementary services test cases | F | 12.8.0 | 12.9.0 | R5-162106 |
| RP-72 | RP-160830 | 0175 | - | Adding mnemonics for PICS | F | 12.8.0 | 12.9.0 | R5-162149 |
| RP-72 | RP-160845 | 0177 | - | Applicability of new MTSI Fixed Broadband Access test cases | F | 12.8.0 | 12.9.0 | R5-162162 |
| RP-72 | RP-160845 | 0178 | - | Removing item 35 from Table A.12 | F | 12.8.0 | 12.9.0 | R5-162314 |
| RP-72 | RP-160845 | 0170 | 1 | Update applicability for AMR-WB | F | 12.8.0 | 12.9.0 | R5-162939 |
| RP-72 | RP-160845 | 0180 | 2 | Correction to applicability of IMS test cases | F | 12.8.0 | 12.9.0 | R5-162941 |
| RP-72 | RP-160858 | 0172 | 1 | Specification 34.229-2 clean up for XML project | F | 12.8.0 | 12.9.0 | R5-163014 |
| RP-72 | RP-160845 | 0167 | 1 | Correction to the applicability of SS test cases requiring XCAP authentication | F | 12.8.0 | 12.9.0 | R5-163070 |
| RP-73 | RP-161426 | 0181 | - | Removing unused references | F | 12.9.0 | 12.10.0 | R5-165202 |
| RP-73 | RP-161397 | 0182 | - | Add applicabilities for WLAN supplementary services test cases | F | 12.9.0 | 12.10.0 | R5-165209 |
| RP-73 | RP-161396 | 0183 | - | Add applicabilities for Fixed Broadband Access supplementary services test cases | F | 12.9.0 | 12.10.0 | R5-165291 |
| RP-73 | RP-161426 | 0185 | - | Renaming of the PICS parameter for MO/MT SMS over IP feature capability | F | 12.9.0 | 12.10.0 | R5-165685 |
| RP-73 | RP-161426 | 0184 | 1 | Align GBA usage | F | 12.9.0 | 12.10.0 | R5-166278 |
| RP-73 | - | - | - | upgraded to v13.0.0 with no change in order to align with 34.229-1 | - | 12.10.0 | 13.0.0 | - |
| RP-74 | RP-162102 | 0186 | - | Update the support for AMR-WB | F | 13.0.0 | 13.1.0 | R5-168025 |
| RP-74 | RP-162116 | 0189 | - | Maintenance of 34.229-2 Appendix A Tables for XML conversion | F | 13.0.0 | 13.1.0 | R5-168138 |
| RP-74 | RP-162073 | 0193 | - | Applicability of new MTSI Fixed Broadband Access test cases | F | 13.0.0 | 13.1.0 | R5-168287 |
| RP-74 | RP-162102 | 0199 | - | Deleting pc\_TMPI\_forGBA | F | 13.0.0 | 13.1.0 | R5-168963 |
| RP-74 | RP-162104 | 0198 | 1 | Corrections to applicability of IMS test case 19.5.8 | F | 13.0.0 | 13.1.0 | R5-169058 |
| RP-74 | RP-162102 | 0194 | 1 | Correction to applicability of IMS test cases 15.21 and 15.21b | F | 13.0.0 | 13.1.0 | R5-169059 |
| RP-74 | RP-162075 | 0192 | 1 | Add applicabilities for WLAN supplementary services test cases | F | 13.0.0 | 13.1.0 | R5-169073 |
| RP-74 | RP-162075 | 0191 | 1 | Add applicability for XCAP over WLAN | F | 13.0.0 | 13.1.0 | R5-169154 |
| RP-75 | RP-170108 | 0200 | - | Correcting Mnemonic in Table A.15 | F | 13.1.0 | 13.2.0 | R5-170529 |
| RP-75 | RP-170066 | 0205 | - | Applicability of new MTSI Fixed Broadband Access test cases | F | 13.1.0 | 13.2.0 | R5-170794 |
| RP-75 | RP-170066 | 0206 | - | Add applicability for XCAP over fixed broadband access | F | 13.1.0 | 13.2.0 | R5-171076 |
| RP-75 | RP-170095 | 0201 | 1 | Adding reuse of Public User Identity for To and From headers | F | 13.1.0 | 13.2.0 | R5-171493 |
| RP-75 | RP-170097 | 0203 | 1 | Addition of new applicability and ICS for IMS Emergency call in VPLMN | F | 13.1.0 | 13.2.0 | R5-171494 |
| RP-75 | RP-170109 | 0204 | 1 | Maintenance of 34.229-2 Table A.4 for XML conversion | F | 13.1.0 | 13.2.0 | R5-171520 |
| RP-76 | RP-171365 | 0207 | - | Removal of applicability of IMS test case 19.5.8 | F | 13.2.0 | 13.3.0 | R5-172033 |
| RP-76 | RP-171376 | 0211 | - | Corrections to test cases H.12.2 and H.15.7 titles | F | 13.2.0 | 13.3.0 | R5-172424 |
| RP-76 | RP-171377 | 0208 | 1 | Maintenance of 34.229-2 for XML conversion | F | 13.2.0 | 13.3.0 | R5-172954 |
| RP-76 | RP-171363 | 0210 | 1 | Add applicability for session timer | F | 13.2.0 | 13.3.0 | R5-173025 |
| RP-77 | RP-171660 | 0214 | - | Add applicabilities for UE category M1 test cases | F | 13.3.0 | 13.4.0 | R5-173539 |
| RP-77 | RP-171660 | 0215 | - | Add media requirements for UE category M1 | F | 13.3.0 | 13.4.0 | R5-173540 |
| RP-77 | RP-171699 | 0216 | - | Removal of technical content in 34.229-2 v12.10.0 and substitution with pointer to the next Release | F | 13.3.0 | 13.4.0 | R5-173549 |
| RP-77 | RP-171660 | 0217 | - | Add supplementary service requirements for UE category M1 | F | 13.3.0 | 13.4.0 | R5-173556 |
| RP-77 | RP-171688 | 0218 | - | Editorial update of table A.12 | F | 13.3.0 | 13.4.0 | R5-173590 |
| RP-77 | RP-171688 | 0221 | - | Voiding PICS for Session-ID | F | 13.3.0 | 13.4.0 | R5-173604 |
| RP-77 | RP-171698 | 0219 | 1 | Correction to PICS for XCAP PDN over WLAN | F | 13.3.0 | 13.4.0 | R5-174560 |
| RP-77 | RP-171690 | 0220 | 1 | Correction to applicability of IMS test case 19.4.7 | F | 13.3.0 | 13.4.0 | R5-174561 |
| RP-77 | RP-171688 | 0223 | 1 | Removal of applicability for unneeded test cases | F | 13.3.0 | 13.4.0 | R5-174562 |
| RP-77 | RP-171690 | 0229 | 1 | Addition of NOTE 6 to Test Cases 19.1.3, 19.3.2, 19.3.2b, 19.3.2c | F | 13.3.0 | 13.4.0 | R5-174563 |
| RP-77 | RP-171653 | 0224 | 1 | Adding applicabilities for Converged IP Communications | F | 13.3.0 | 13.4.0 | R5-174702 |
| RP-77 | RP-171679 | 0227 | - | Addition of RFC reference in applicability spec for eCall over IMS Release 14 | F | 13.4.0 | 14.0.0 | R5-173777 |
| RP-77 | RP-171684 | 0232 | - | Update of PICS condition related to IMS emergency registration failure case in Rel-14 | F | 13.4.0 | 14.0.0 | R5-174559 |
| RP-77 | RP-171679 | 0230 | 2 | Add applicability for new eCall in IMS testcases | F | 13.4.0 | 14.0.0 | R5-174695 |
| RP-78 | RP-172217 | 0233 | - | Add applicability for eCall over IMS test cases | F | 14.0.0 | 14.1.0 | R5-176061 |
| RP-78 | RP-172237 | 0234 | - | Update to applicability of FBBA test case H.15.7 | F | 14.0.0 | 14.1.0 | R5-176170 |
| RP-78 | RP-172197 | 0235 | - | Handling remaining Editor’s Note | F | 14.0.0 | 14.1.0 | R5-176225 |
| RP-78 | RP-172233 | 0236 | 1 | Add PICS for audio feature tag | F | 14.0.0 | 14.1.0 | R5-176940 |
| RP-78 | RP-172233 | 0237 | 1 | Corrections to PICS for video feature tag | F | 14.0.0 | 14.1.0 | R5-176941 |
| RP-78 | RP-172233 | 0238 | 1 | Corrections to test case applicabilities | F | 14.0.0 | 14.1.0 | R5-176943 |
| RP-78 | RP-172237 | 0239 | 1 | Correction of table A.6a | F | 14.0.0 | 14.1.0 | R5-176944 |
| RP-79 | RP-180089 | 0241 | 1 | Correction of eCall over IMS test case applicability | F | 14.1.0 | 14.2.0 | R5-181195 |
| RP-80 | RP-180725 | 0245 | - | Addition of applicability for new IMS test cases J.18.1 and J.18.2 | F | 14.2.0 | 14.3.0 | R5-183108 |
| RP-81 | RP-181577 | 0246 | - | Addition of IR.92 to SM-over-IP roles | F | 14.3.0 | 14.4.0 | R5-184048 |
| RP-81 | RP-181577 | 0247 | 1 | Adding SMS over IP configuration to applicabilities | F | 14.3.0 | 14.4.0 | R5-185088 |
| RP-82 | RP-182283 | 0248 | - | Clarifications on applicability of OIR and TIR | F | 14.4.0 | 14.5.0 | R5-186467 |
| RP-82 | RP-182283 | 0249 | - | Addition of PICS Mnemonic for ECT | F | 14.4.0 | 14.5.0 | R5-187416 |
| RP-83 | RP-190091 | 0253 | - | Addition of new applicability for MT MTSI speech call when MO reserves resources before sending INVITE | F | 14.5.0 | 14.6.0 | R5-191732 |
| RP-83 | RP-190091 | 0250 | 1 | Adding applicabilities for Session Timer test cases | F | 14.5.0 | 14.6.0 | R5-192324 |
| RP-83 | RP-190091 | 0251 | 1 | Adding PICS for Session Timer | F | 14.5.0 | 14.6.0 | R5-192325 |
| RP-83 | RP-190095 | 0252 | 1 | Addition of new applicability for user initiated USSI | F | 14.5.0 | 14.6.0 | R5-192326 |
| RP-83 | RP-190091 | 0254 | 1 | Update to applicability condition of IMS test cases with precondition support | F | 14.5.0 | 14.6.0 | R5-192327 |
| RP-83 | RP-190092 | 0255 | 1 | Change in applicability of test case 19.4.1 which does not require SIM | F | 14.5.0 | 14.6.0 | R5-192734 |
| RP-84 | RP-190887 | 0258 | 1 | Corrections to preconditions applicabilities | F | 14.6.0 | 14.7.0 | R5-194828 |
| RP-84 | RP-190887 | 0259 | 1 | Addition of applicability for new MO and MT voice call test cases tested without pre-conditions | F | 14.6.0 | 14.7.0 | R5-194831 |
| RP-84 | RP-190888 | 0256 | 1 | Applicability update of condition C162 | F | 14.6.0 | 14.7.0 | R5-194832 |
| RP-84 | RP-190868 | 0257 | 1 | Adding 5G capabilities | F | 14.7.0 | 15.0.0 | R5-195232 |
| RP-84 | - | - | - | Fixing small omissions concerning R5-194828 |  | 15.0.0 | 15.0.1 | - |
| RP-85 | RP-191689 | 0262 | - | Reference PICS from other specifications | F | 15.0.1 | 15.1.0 | R5-195897 |
| RP-85 | RP-191689 | 0265 | - | Applicabilities for new IMS test cases | F | 15.0.1 | 15.1.0 | R5-196706 |
| RP-85 | RP-191704 | 0263 | 1 | Addition of applicability for new MO test cases with 503 and 504 response tested without preconditions | F | 15.0.1 | 15.1.0 | R5-197045 |
| RP-85 | RP-191704 | 0264 | 1 | Addition of new test applicability for IMS | F | 15.0.1 | 15.1.0 | R5-197046 |
| RP-85 | RP-191704 | 0261 | 1 | Miscellaneous fixes to test case applicabilities | F | 15.0.1 | 15.1.0 | R5-197047 |
| RP-86 | RP-192484 | 0267 | - | Corrections to applicabilities of IMS test cases H.12.2 and H.15.4 | F | 15.1.0 | 15.2.0 | R5-197933 |
| RP-86 | RP-192480 | 0268 | 2 | Adding a new test applicability for IMS | F | 15.1.0 | 15.2.0 | R5-199068 |
| RP-88 | RP-200593 | 0270 | 1 | Update test applicability to reflect the change of test case title | F | 15.2.0 | 15.3.0 | R5-202533 |
| RP-89 | RP-201448 | 0271 | 1 | Extending TS 34.229-2 to host applicabilities for 5GS IMS test cases | F | 15.3.0 | 15.4.0 | R5-204476 |
| RP-90 | RP-202248 | 0272 | - | Voiding applicabilities of old unverified test cases | F | 15.4.0 | 15.5.0 | R5-205095 |
| RP-90 | RP-202221 | 0274 | - | Update applicabilities for 5GS tests 7.5 and 7.7 | F | 15.4.0 | 15.5.0 | R5-205555 |
| RP-90 | RP-202248 | 0277 | - | Correction to applicability of test case 8.3 | F | 15.4.0 | 15.5.0 | R5-205844 |
| RP-90 | RP-202221 | 0273 | 1 | Corrections and additions of applicabilities for IMS over 5GS test cases | F | 15.4.0 | 15.5.0 | R5-206371 |
| RP-91 | RP-210131 | 0280 | - | Adding NG.114 dependencies and PICS for test case 7.4 | F | 15.5.0 | 15.6.0 | R5-210346 |
| RP-91 | RP-210131 | 0281 | - | Applicability of ‘Re-registration after capability update / 5GS’ test case | F | 15.5.0 | 15.6.0 | R5-211299 |
| RP-91 | RP-210131 | 0278 | 1 | Addition of applicabilities for new IMS over 5GS test cases | F | 15.5.0 | 15.6.0 | R5-211419 |
| RP-91 | RP-210131 | 0279 | 1 | Corrections and extensions to applicability statements of IMS over 5GS test cases | F | 15.5.0 | 15.6.0 | R5-211420 |
| RP-92 | RP-210990 | 0282 | 1 | Corrections for 5GS test cases | F | 15.6.0 | 15.7.0 | R5-213517 |
| RP-92 | RP-210990 | 0283 | 1 | Adding applicability statements for new IMS 5GS test cases | F | 15.6.0 | 15.7.0 | R5-213518 |
| RP-92 | RP-210990 | 0284 | 1 | Correction to the applicability of IMS 5GS test case 7.4 | F | 15.6.0 | 15.7.0 | R5-213519 |
| RP-93 | RP-211737 | 0292 | - | Applicability updates to EIEI IMS test cases | F | 15.7.0 | 15.8.0 | R5-215119 |
| RP-93 | RP-211687 | 0287 | 1 | Adding applicabilities for new IMS5GS test cases | F | 15.7.0 | 15.8.0 | R5-215719 |
| RP-93 | RP-211687 | 0288 | 1 | Update NG.114 capabilities | F | 15.7.0 | 15.8.0 | R5-215720 |
| RP-93 | RP-211687 | 0286 | 1 | Corrections to applicability statements of IMS over 5GS test cases | F | 15.7.0 | 15.8.0 | R5-216206 |
| RP-93 | RP-211687 | 0289 | 1 | Add NG.114 PS data off | F | 15.7.0 | 15.8.0 | R5-216209 |
| RP-93 | RP-211727 | 0291 | 1 | Applicability updates for NR EIEI test case 11.1 | F | 15.8.0 | 16.0.0 | R5-216330 |
| RP-94 | RP-212751 | 0294 | 1 | Additions and corrections of IMS5GS applicability statements | F | 16.0.0 | 16.1.0 | R5-217833 |
| RP-94 | RP-212751 | 0295 | 1 | Add applicabilities for test cases 7.4a and 7.6a | F | 16.0.0 | 16.1.0 | R5-217834 |
| RP-94 | RP-212785 | 0297 | 1 | Addition of applicability for NR EIEI test cases | F | 16.0.0 | 16.1.0 | R5-217948 |
| RP-94 | RP-212800 | 0298 | 1 | Update to applicability of eCall over IMS test cases | F | 16.0.0 | 16.1.0 | R5-217961 |
| RP-94 | RP-212800 | 0299 | 1 | Updates to IMS emergency call test cases | F | 16.0.0 | 16.1.0 | R5-217962 |
| RP-95 | RP-220071 | 0301 | - | Update applicability for test case 7.4 | F | 16.1.0 | 16.2.0 | R5-220185 |
| RP-95 | RP-220071 | 0303 | - | Corrections for IMS5GS test cases | F | 16.1.0 | 16.2.0 | R5-220213 |
| RP-95 | RP-220071 | 0308 | - | Updates to IMS security applicabilities | F | 16.1.0 | 16.2.0 | R5-221218 |
| RP-95 | RP-220071 | 0302 | 1 | Add applicabilities for EVS B0 and A1 | F | 16.1.0 | 16.2.0 | R5-221468 |
| RP-95 | RP-220071 | 0307 | 1 | Update for IMS emergency service applicability | F | 16.1.0 | 16.2.0 | R5-221469 |
| RP-95 | RP-220106 | 0305 | 1 | Update to applicability of NR EIEI test cases | F | 16.1.0 | 16.2.0 | R5-222045 |
| RP-96 | RP-221114 | 0312 | - | Updates to IMS test case applicabilities | F | 16.2.0 | 16.3.0 | R5-223078 |
| RP-96 | RP-221114 | 0310 | 1 | Corrections and amendments of IMS5GS applicability statements | F | 16.2.0 | 16.3.0 | R5-223498 |
| RP-97 | RP-221997 | 0315 | - | Correction to 5G IMS applicability C19 | F | 16.3.0 | 16.4.0 | R5-225190 |
| RP-97 | RP-221997 | 0313 | 1 | Update of applicability for 5GC test case 7.14 and 7.20 | F | 16.3.0 | 16.4.0 | R5-225422 |
| RP-98 | RP-222791 | 0317 | - | Correction to Applicability of TS 34.229-5 tests | F | 16.4.0 | 16.5.0 | R5-226311 |
| RP-99 | RP-230246 | 0318 | - | Remove applicability clauses for test case 10.11 and 10.15 | F | 16.5.0 | 16.6.0 | R5-230923 |
| RP-100 | RP-230973 | 0323 | - | Updates to applicability for Supplementary Services test cases | F | 16.6.0 | 16.7.0 | R5-232769 |
| RP-100 | RP-230973 | 0319 | 1 | Remove test case 7.4 | F | 16.6.0 | 16.7.0 | R5-233374 |
| RP-100 | RP-230973 | 0320 | 1 | Remove test case 7.6 | F | 16.6.0 | 16.7.0 | R5-233375 |
| RP-100 | RP-230973 | 0321 | 1 | Update applicabilities for NG.114 default test cases | F | 16.6.0 | 16.7.0 | R5-233485 |
| RP-101 | RP-231690 | 0328 | - | Updates to IMS test case applicabilities | F | 16.7.0 | 16.8.0 | R5-235095 |
| RP-101 | RP-231688 | 0324 | 1 | Correction of clause 4 | F | 16.7.0 | 16.8.0 | R5-235317 |
| RP-101 | RP-231690 | 0327 | 1 | Editorial updates to 34.229-2 tables | F | 16.7.0 | 16.8.0 | R5-235325 |
| RP-101 | RP-231690 | 0329 | - | Update of applicability for IMS Test Cases | F | 16.7.0 | 16.8.0 | R5-235447 |