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**Universal Mobile Telecommunications System (UMTS);
LTE;
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
(3GPP TS 34.229-2 version 10.2.0 Release 10)**



Reference

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Foreword

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Introduction

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

The present document is 2nd part of a multi-part conformance test specification for UE and is *valid for 3GPP Release 5*. 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)".

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]. 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.

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.
 - For a Release 5 UE, references to 3GPP documents are to version 5.x.y, when available
 - For a Release 6 UE, references to 3GPP documents are to version 6.x.y, when available
 - For a Release 7 UE, references to 3GPP documents are to version 7.x.y, when available
 - For a Release 8 UE, references to 3GPP documents are to version 8.x.y, when available.
 - For a Release 9 UE, references to 3GPP documents are to version 9.x.y, when available.

- [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] 3GPP TS 26.234: "Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs".
- [12] 3GPP TS 33.203: "Access security for IP-based services".
- [13] 3GPP TS 23.221: "Architectural requirements".
- [14] 3GPP TS 26.235: "Packet switched conversational multimedia applications; Default codecs".
- [15] RFC 3261: "SIP: Session Initiation Protocol".
- [16] 3GPP TS 24.141: "Presence service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3".
- [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] RFC 3455: "Private Header (P-Header) Extensions to the Session Initiation Protocol (SIP) for the 3rd-Generation Partnership Project (3GPP)"
- [21] RFC 3608: "Session Initiation Protocol (SIP) Extension Header Field for Service Route Discovery During Registration".
- [22] RFC 3327: "Session Initiation Protocol Extension Header Field for Registering Non-Adjacent Contacts".
- [23] RFC 3329: "Security Mechanism Agreement for the Session Initiation Protocol (SIP)".
- [24] RFC 3680: "A Session Initiation Protocol (SIP) Event Package for Registrations".
- [25] RFC 3486: 'Compressing the Session Initiation Protocol (SIP)'
- [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] RFC 3265: "Session Initiation Protocol (SIP) Specific Event Notification".
- [29] RFC 3515: "The Session Initiation Protocol (SIP) REFER method".
- [30] RFC 3311: "The Session Initiation Protocol (SIP) UPDATE method".
- [31] RFC 3313: "Private Session Initiation Protocol (SIP) Extensions for Media Authorization".
- [32] RFC 3323: "A Privacy Mechanism for the Session Initiation Protocol (SIP)".
- [33] RFC 3325: "Private Extensions to the Session Initiation Protocol (SIP) for Network Asserted Identity within Trusted Networks".
- [34] RFC 3428: "Session Initiation Protocol (SIP) Extension for Instant Messaging".
- [35] RFC 3326: "The Reason Header Field for the Session Initiation Protocol (SIP)".

- [36] RFC 3841: "Caller Preferences for the Session Initiation Protocol (SIP)"
- [37] RFC 3903: "An Event State Publication Extension to the Session Initiation Protocol (SIP)".
- [38] RFC 4028: "Session Timers in the Session Initiation Protocol (SIP)".
- [39] RFC 3892: "The Session Initiation Protocol (SIP) Referred-By Mechanism".
- [40] RFC 3891: "The Session Initiation Protocol (SIP) "Replaces" Header".
- [41] RFC 3911: "The Session Initiation Protocol (SIP) "Join" Header".
- [42] RFC 3840: "Indicating User Agent Capabilities in the Session Initiation Protocol (SIP)"
- [43] RFC 3857: "A Watcher Information Event Template Package for the Session Initiation Protocol (SIP)".
- [44] RFC 3856: "A Presence Event Package for the Session Initiation Protocol (SIP)".
- [45] draft-ietf-sipping-config-framework-07 (July 2005): "A Framework for Session Initiation Protocol User Agent Profile Delivery".

Editor's note: The above document cannot be formally referenced until it is published as an RFC.

- [46] draft-ietf-sipping-conference-package-12 (July 2005): "A Session Initiation Protocol (SIP) Event Package for Conference State"

Editor's note: The above document cannot be formally referenced until it is published as an RFC.

- [47] RFC 2403 "The Use of HMAC-MD5-96 within ESP and AH".
- [48] RFC 2404 "The Use of HMAC-SHA-1-96 within ESP and AH".
- [49] RFC 3388: "Grouping of Media Lines in Session Description Protocol".
- [50] RFC 3524: "Mapping of Media Streams to Resource Reservation Flows".
- [51] RFC 3556: "Session Description Protocol (SDP) Bandwidth Modifiers for RTP Control Protocol (RTCP) Bandwidth".
- [52] Void
- [53] RFC 2451: "The ESP CBC-Mode Cipher Algorithms".
- [54] RFC 3602: "The AES-CBC Cipher Algorithm and Its Use with IPsec".
- [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] RFC 4032 (March 2005): "Update to the Session Initiation Protocol (SIP) Preconditions Framework"
- [58] RFC 4145 (September 2005): "TCP-Based Media Transport in the Session Description Protocol (SDP)".
- [59] draft-ietf-mmusic-ice-17 (July 2007): "Interactive Connectivity Establishment (ICE): A Protocol for Network Address Translator (NAT) Traversal for Offer/Answer Protocols".
- [60] RFC 4583 (November 2006): "Session Description Protocol (SDP) Format for Binary Floor Control Protocol (BFCP) Streams".
- [61] RFC 4566 (June 2006): "SDP: Session Description Protocol".

- [62] RFC 3267 (June 2002): "Real-Time Transport Protocol (RTP) Payload Format and File Storage Format for the Adaptive Multi-Rate (AMR) and Adaptive Multi-Rate Wideband (AMR-WB) Audio Codecs".
- [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] 3GPP TS 24.341: "Support of SMS over IP networks; Stage 3".
- [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] GSMA PRD IR.92: "IMS Profile for Voice and SMS"
- [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) Signaling 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)".

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.

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.

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.

Table 1: Applicability of tests

| Clause | Title | Release | Applicability | Comments |
|-------------------------------|--|---------|---------------|---|
| 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 |
| 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 supporting 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 supporting IPv4, supporting 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 supporting 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 supporting 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 | P-CSCF discovery from ISIM | Rel-8 | C60 | UE supporting P-CSCF discovery in home network while roaming |
| Registration | | | | |
| 8.1 | Initial registration | Rel-8 | C17 | UE supporting IMS security |
| 8.2 | User Initiated Re-Registration | Rel-8 | C17 | UE supporting IMS security |
| 8.3 | Mobile Initiated Deregistration | Rel-8 | C17 | UE supporting IMS security |
| 8.4 | Invalid Behaviour - 423 Interval Too Brief | Rel-8 | C17 | UE supporting IMS security |
| 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 supporting GIBA only |
| 8.11 | Initial registration using IMS AKA and GIBA against a network with GIBA support only | Rel-8 | C19 | UE supporting IMS security and GIBA |
| 8.12 | User initiated re-registration using GIBA | Rel-8 | C18 | UE supporting GIBA only |
| 8.13 | User initiated de-registration using GIBA | Rel-8 | C18 | UE supporting GIBA only |
| 8.14 | Initial registration for three implicit registration sets | Rel-8 | C17 | UE supporting IMS security |
| 8.x | Refresh for ISIM parameters | Rel-10 | C17 | UE supporting IMS security |
| Authentication | | | | |
| 9.1 | Invalid Behaviour - MAC Parameter Invalid | Rel-8 | C17 | UE supporting IMS security |
| 9.2 | Invalid Behaviour - SQN out of range | Rel-8 | C17 | UE supporting IMS security |
| Subscription | | | | |
| 10.1 | Invalid Behaviour - 503 Service Unavailable | Rel-8 | R | |
| Notification | | | | |
| 11.1 | Network-initiated deregistration | Rel-8 | R | |
| 11.2 | Network initiated re-authentication | Rel-8 | C17 | UE supporting IMS security |
| Call Control | | | | |
| 12.1 | Void | | | |
| 12.2 | MO Call - 503 Service Unavailable | Rel-8 | C22 | UE supporting MTSI and speech |
| 12.2a | MO Call - 504 Server Time-out | Rel-8 | C22 | UE supporting MTSI and speech |
| 12.3 | Void | | | |
| 12.4 | Void | | | |
| 12.5 | Void | | | |
| 12.6 | Void | | | |
| 12.7 | Void | | | |
| 12.8 | Void | | | |

| Clause | Title | Release | Applicability | Comments |
|----------------------------------|---|---------|---------------|--|
| 12.9 | Void | | | |
| 12.10 | Void | | | |
| 12.11 | Void | | | |
| 12.12 | MO MTSI Voice Call Successful with preconditions | Rel-8 | C22 | UE supporting MTSI and speech |
| 12.13 | MT MTSI Speech call | Rel-8 | C27 | UE supporting MTSI and Initiating session and MTSI speech |
| 12.15 | Void | | | |
| 12.16 | MO MTSI Text call | Rel-8 | C26 | UE capable of initiating a session and supporting preconditions and MTSI text, RTP |
| 12.17 | MT MTSI Text call | Rel-8 | C37 | UE supporting MTSI and UE capable of initiating a session and MTSI text, RTP |
| 12.18 | MTSI MO speech call / SSAC / 0% access probability for MTSI MO speech call | Rel-9 | C68 | UE supporting MTSI and Initiating session and MTSI speech and E-UTRA. |
| 12.19 | MTSI MO video call / SSAC / 0% access probability for MTSI MO video call | Rel-9 | C69 | UE supporting MTSI and Initiating session and MTSI speech and MTSI video and E-UTRA. |
| 12.20 | Emergency call / Success / SSAC / 0% access propability for MTSI MO speech call | Rel-9 | C64 | UE supports IMS emergency services and EUTRA FDD or TDD.. |
| 12.21 | MO MTSI Video call | Rel-8 | C71 | UE supporting MTSI and initiating session and MTSI speech and MTSI video H.264 CBP Level 1.2 |
| 12.22 | MT MTSI Video call | Rel-8 | C70 | UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 |
| SIP Compression (SigComp) | | | | |
| 13.1 | SigComp in the Initial registration | FFS | C58 | UE supporting IMS security and Indicate Sigcomp |
| 13.2 | SigComp in the MO Call | FFS | FFS | FFS (see Note1 below) |
| 13.3 | SigComp in the MT Call | FFS | FFS | FFS (see Note1 below) |
| 13.4 | Void | | | |
| Emergency Service | | | | |
| 14.1 | Void | | | |
| 14.2 | Void | | | |
| Supplementary Services | | | | |
| 15.1 | Originating Identification Presentation | Rel-8 | C43 | UE supporting MTSI and Originating Identification Presentation |
| 15.2 | Originating Identification Restriction | Rel-8 | C44 | UE supporting MTSI and Originating Identification Restriction |
| 15.3 | Terminating Identification Presentation | Rel-8 | C48 | UE supporting MTSI and Terminating Identification Presentation |
| 15.4 | Terminating Identification Restriction | Rel-8 | C49 | UE supporting MTSI and Terminating Identification Restriction |
| 15.5 | Communication Forwarding unconditional | Rel-8 | C30 | UE supporting MTSI and Communication Diversion |
| 15.6 | Communication Deflection | Rel-8 | C31 | UE supporting MTSI and speech and Communication Diversion |
| 15.7 | Communication Forwarding on non Reply: activation | Rel-8 | C30 | UE supporting MTSI and Communication Diversion |
| 15.8 | Communication Forwarding on non reply: MO call initiation | Rel-8 | C31 | UE supporting MTSI and speech and Communication Diversion |
| 15.9 | Communication Forwarding on Busy | Rel-8 | C30 | UE supporting MTSI and Communication Diversion |
| 15.10 | Communication Forwarding on Not logged-in | Rel-8 | C30 | UE supporting MTSI and Communication Diversion |
| 15.10a | Communication Forwarding on Not reachable | Rel-8 | C30 | UE supporting MTSI and Communication Diversion |
| 15.11 | MO Call Hold without announcement | Rel-8 | C23 | UE supporting MTSI and speech and Communication Hold |
| 15.12 | MT Call Hold without announcement | Rel-8 | C23 | UE supporting MTSI and speech and Communication Hold |
| 15.13 | Incoming Communication Barring except for a specific user | Rel-8 | C24 | UE supporting MTSI and Communication Barring |
| 15.14 | Incoming Communication Barring for anonymous users | Rel-8 | C45 | UE supporting MTSI and Communication Barring and Anonymous Communication Rejection |
| 15.14a | Communication Barring while roaming | Rel-8 | C24 | UE supporting MTSI and Communication Barring |
| 15.15 | Subscription to the MWI event package | Rel-8 | C50 | UE supporting MTSI and Message Waiting Indication |
| 15.17 | Creating and leaving a conference | Rel-8 | C32 | UE supporting MTSI and Conference |

| Clause | Title | Release | Applicability | Comments |
|------------------------|--|---------|---------------|---|
| 15.18 | Inviting user to conference by sending a REFER request to the user | Rel-8 | C32 | UE supporting MTSI and Conference |
| 15.19 | Inviting user to conference by sending a REFER request to the conference focus | Rel-8 | C32 | UE supporting MTSI and Conference |
| 15.21 | Joining a conference after being invited to it | Rel-8 | C32 | UE supporting MTSI and Conference |
| 15.21a | Three way session creation | Rel-8 | C61 | UE supporting MTSI and Conference and three way session |
| 15.23 | MO Explicit Communication Transfer - Blind Call Transfer | Rel-8 | C25 | UE supporting MTSI and speech and Explicit Communication Transfer - blind transfer |
| 15.24 | MT Explicit Communication Transfer - Blind Call Transfer | Rel-8 | C25 | UE supporting MTSI and speech and Explicit Communication Transfer - blind transfer |
| 15.25 | MO Explicit Communication Transfer - Consultative Call Transfer | Rel-8 | C29 | UE supporting MTSI and speech and Explicit Communication Transfer - consultative transfer |
| 15.26 | MT Explicit Communication Transfer - Consultative Call Transfer (without 3PCC) | Rel-8 | C29 | UE supporting MTSI and speech and Explicit Communication Transfer - consultative transfer |
| 15.27 | Communication Waiting and answering the call | Rel-8 | C57 | MTSI and Communication Waiting |
| 15.28 | Communication Waiting and cancelling the call | Rel-8 | C57 | MTSI and Communication Waiting |
| Codec selecting | | | | |
| 16.1 | Speech AMR, indicate all codec modes | Rel-8 | C27 | UE supporting MTSI and Initiating session and MTSI speech |
| 16.2 | Speech AMR, indicate selective codec modes | Rel-8 | C27 | UE supporting MTSI and Initiating session and MTSI speech |
| 16.3 | Speech AMR-WB, indicate all codec modes | Rel-8 | C28 | UE supporting MTSI and Initiating session and MTSI speech and MTSI speech, AMR wideband |
| 16.4 | Speech AMR-WB, indicate all codec modes | Rel-8 | C28 | UE supporting MTSI and Initiating session and MTSI speech and MTSI speech, AMR wideband |
| 16.5 | Void | | | |
| 16.6 | Void | | | |
| 16.7 | Void | | | |
| 16.8 | Void | | | |
| 16.10 | MO MTSI Text session with MSRP | Rel-8 | C46 | UE supporting MTSI and text, MSRP and UE not supporting preconditions (for MSRP session) |
| 16.11 | MT Speech, add video H.263 profile 3 | FFS | C52 | UE supporting MTSI and Initiating session and MTSI speech and MTSI video and MTSI video H.263 profile 3 |
| 16.12 | MT Speech, add video H.264 | FFS | C53 | UE supporting MTSI and Initiating session and MTSI speech and MTSI video and MTSI video H.264 |
| 16.13 | MT Speech, add video MPEG-4 | FFS | C54 | UE supporting MTSI and Initiating session and MTSI speech and MTSI video and MTSI video MPEG-4 |
| Media use cases | | | | |

| Clause | Title | Release | Applicability | Comments |
|--------------------------|--|---------|---------------|--|
| 17.1 | MO Speech, add video remove video | Rel-8 | C71 | UE supporting MTSI and Initiating session and MTSI speech and MTSI video H.264 CBP Level 1.2 |
| 17.2 | MT Speech, add video remove video | Rel-8 | C70 | UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 |
| 17.4 | Void | | | |
| 17.5 | MO Speech, add text remove text | Rel-7 | C51 | UE supporting MTSI and Initiating session and MTSI speech and MTSI text, MSRP |
| 17.6 | MT Speech, add text remove text | FFS | C38 | UE supporting MTSI and Initiating session and MTSI speech and MTSI text, RTP |
| 17.8 | Void | | | |
| 17.10 | Void | | | |
| 17.12 | Void | | | |
| 17.14 | Void | | | |
| 17.16 | Void | | | |
| 17.17 | MO Text, add video remove video | FFS | C47 | UE supporting MTSI and Initiating session and MTSI video and MTSI text, RTP and text, add video remove video |
| 17.18 | MT Text, add video remove video | FFS | C47 | UE supporting MTSI and Initiating session and MTSI video and MTSI text, RTP and text, add video remove video |
| SMS over IMS | | | | |
| 18.1 | Mobile Originating SMS | Rel-8 | C55 | UE supporting MO SMS over IMS |
| 18.2 | Mobile Terminating SMS | Rel-8 | C56 | UE supports SM-over-IP receiver |
| Emergency Service | | | | |
| 19.1.1 | Emergency call with emergency registration / Success / Location information available | Rel-9 | C76 | UE supports IMS emergency services and Geolocation Information |
| 19.1.2 | Emergency call with emergency registration / Success / Location information not available | Rel-9 | C59 | UE supports IMS emergency services |
| 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 supporting IMS emergency services and Emergency speech call over UTRAN or GERAN (NOTE 2) |
| 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 supporting IMS emergency services and Emergency speech call over 1XRTT (NOTE 2) |
| 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 supporting IMS emergency services and MTSI and speech and Communication Hold during emergency call |
| 19.3.1 | Non-UE detectable emergency call / IM CN sends a 1xx response / UE geographical location information available | Rel-9 | C73 | UE supports IMS emergency services and Geolocation Information and MTSI and speech |
| 19.3.2 | Non-UE detectable emergency call / IM CN sends 380 Alternative Service / Non-emergency IMS registration/ UTRAN or GERAN | Rel-9 | C66 | Speech and IMS emergency call and emergency call over UTRAN or GERAN (NOTE 2) |
| 19.3.2a | Non-UE detectable emergency call / IM CN sends 380 Alternative Service / Non-emergency IMS registration / CDMA 2000 1xRTT | Rel-9 | C75 | Speech and IMS emergency call and emergency call over 1XRTT (NOTE 2) |
| 19.3.3 | Non-UE detectable emergency call / IM CN sends 380 Alternative Service / Emergency IMS registration | Rel-9 | C59 | UE supports IMS emergency services |
| 19.3.4 | Non-UE detectable emergency call / IM CN sends 380 with an Alternative Service / Previous emergency IMS registration not expired | Rel-9 | C59 | UE supports IMS emergency services |
| 19.4.1 | Emergency call without emergency registration / EPS / UE does not contain an ISIM or USIM | Rel-9 | C59 | UE supports IMS emergency services |
| 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 IMS emergency services and EUTRA FDD or TDD |

| Clause | Title | Release | Applicability | Comments |
|---------|---|---------|---------------|---|
| 19.4.3 | Emergency call without emergency registration / GPRS / UE does not contain an ISIM or USIM / UE is in state GMM-NO USIM | Rel-9 | C65 | UE supports IMS emergency services and UTRA and PS domain |
| 19.4.4 | Emergency call without emergency registration / GPRS / UE contains an ISIM or USIM / UE is in state GMM-REGISTERED.LIMITED-SERVICE | Rel-9 | C59 | UE supports IMS emergency services |
| 19.4.5 | Emergency call without emergency registration / UE credentials are not accepted | Rel-9 | C59 | UE supports IMS emergency services |
| 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 IMS emergency services |
| 19.5.6 | User-initiated emergency reregistration / UE has emergency related ongoing dialog | Rel-9 | C59 | UE supports IMS emergency services |
| 19.5.7 | User-initiated emergency reregistration / The user initiates an emergency call | Rel-9 | C59 | UE supports IMS emergency services |
| 19.5.8 | User-initiated emergency reregistration / Standalone transactions exist | Rel-9 | C67 | UE supports IMS emergency services and MO SMS over IMS |
| 19.5.9 | In parallel emergency and non-emergency registrations | Rel-9 | C59 | UE supports IMS emergency services |
| 19.5.10 | Deregistration upon emergency registration expiration | Rel-9 | C59 | UE supports IMS emergency services |

| Conditions/Options | | |
|--------------------|--|---|
| C00 | Void | |
| C01 | IF A.4/2B THEN R ELSE N/A (condition unused, see Note1 below) | Initiating session |
| C02 | Void | |
| C03 | IF A.4/2B AND A.4/16 THEN R ELSE N/A (condition unused, see Note1) | Initiating 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 | IF A.7/1 THEN R ELSE N/A | IPv4 |
| C13 | Void | |
| C14 | Void | |
| C15 | Void | |
| C16 | Void | |
| C17 | IF A.6a/2 THEN R ELSE N/A | IMS security |
| C18 | IF A.6a/1 AND NOT A.6a/2 THEN R ELSE N/A | GIBA AND NOT IMS security |
| C19 | IF A.6a/2 AND A.6a/1 THEN R ELSE N/A | IMS security AND GIBA |
| C20 | IF A.6a/2 AND A.8/5 THEN R ELSE N/A | IMS security AND indication of the willingness to receive the responses and requests compressed from initial REGISTER onwards by using the "comp=sigcomp" parameter |
| C21 | Void | |
| C22 | IF A.3A/50 AND A.15/1 THEN R ELSE N/A | MTSI and speech |
| C23 | IF A.3A/50 AND A.15/1 AND A.16/6 THEN R ELSE N/A | MTSI and speech and Communication Hold |
| C24 | IF A.3A/50 AND A.16/7 THEN R ELSE N/A | MTSI and Communication Barring |
| C25 | IF A.3A/50 AND A.15/1 AND A.16/10 THEN R ELSE N/A | MTSI and speech and Explicit Communication Transfer - blind transfer |
| C26 | IF A.3A/50 AND A.4/2B AND A.4/16 AND A.15/7 THEN R ELSE N/A | MTSI AND Initiating session AND preconditions AND MTSI text, RTP |
| C27 | IF A.3A/50 AND A.4/2B AND A.15/1 THEN R ELSE N/A | MTSI AND Initiating session AND MTSI speech |
| C28 | IF A.3A/50 AND A.4/2B AND A.15/1 AND A.15/2 THEN R ELSE N/A | MTSI AND Initiating session AND MTSI speech AND MTSI speech, AMR wideband |
| C29 | IF A.3A/50 AND A.15/1 AND A.16/11 THEN R ELSE N/A | MTSI and speech and Explicit Communication Transfer - consultative transfer |
| C30 | IF A.3A/50 AND A.16/5 THEN R ELSE N/A | MTSI and Communication Diversion |
| C31 | IF A.3A/50 AND A.15/1 AND A.16/5 THEN R ELSE N/A | MTSI and speech and Communication Diversion |
| C32 | IF A.3A/50 AND A.16/9 THEN R ELSE N/A | MTSI and Conference |
| C33 | Void | |
| C34 | Void | |
| C35 | Void | |
| C37 | IF A.3A/50 AND A.4/2B AND A.15/7 THEN R ELSE N/A | MTSI AND Initiating session AND MTSI text, RTP |
| C38 | IF A.3A/50 AND A.4/2B AND A.15/1 AND A.15/7 THEN R ELSE N/A | MTSI AND Initiating session AND MTSI speech AND MTSI text, RTP |
| C39 | Void | |
| C40 | Void | |
| C41 | Void | |
| C42 | Void | |
| C43 | IF A.3A/50 AND A.16/1 THEN R ELSE N/A | MTSI and Originating Identification Presentation |
| C44 | IF A.3A/50 AND A.16/2 THEN R ELSE N/A | MTSI and Originating Identification Restriction |

| | | |
|-----|---|--|
| C45 | IF A.3A/50 AND A.16/7 AND A.16/12 THEN R ELSE N/A | MTSI and Communication Barring and Anonymous Communication Rejection |
| C46 | IF A.3A/50 AND A.15/8 AND NOT A.4/16 THEN R ELSE N/A | MTSI and Text, MSRP and no preconditions |
| C47 | IF A.3A/50 AND A.4/2B AND A.15/3 AND A.15/7 AND A.17/1 THEN R ELSE N/A | MTSI AND Initiating session AND MTSI video AND MTSI text, RTP AND text, add video remove video |
| C48 | IF A.3A/50 AND A.16/3 THEN R ELSE N/A | MTSI and Terminating Identification Presentation |
| C49 | IF A.3A/50 AND A.16/4 THEN R ELSE N/A | MTSI and Terminating Identification Restriction |
| C50 | IF A.3A/50 AND A.16/8 THEN R ELSE N/A | MTSI and Message Waiting Indication |
| C51 | IF A.3A/50 AND A.4/2B AND A.15/1 AND A.15/8 THEN R ELSE N/A | MTSI AND Initiating session AND MTSI speech AND MTSI text, MSRP |
| C52 | IF A.3A/50 AND A.4/2B AND A.15/1 AND A.15/3 AND A.15/4 THEN R ELSE N/A | MTSI AND Initiating session AND MTSI speech AND MTSI video AND MTSI video H.263 profile 3 |
| C53 | IF A.3A/50 AND A.4/2B AND A.15/1 AND A.15/3 AND A.15/6 THEN R ELSE N/A | MTSI AND Initiating session AND MTSI speech AND MTSI video AND MTSI video H.264 |
| C54 | IF A.3A/50 AND A.4/2B AND A.15/1 AND A.15/3 AND A.15/5 THEN R ELSE N/A | MTSI AND Initiating session AND MTSI speech AND MTSI video AND MTSI video MPEG-4 |
| C55 | IF A.3A/61 THEN R ELSE N/A | SM-over-IP sender |
| C56 | IF A.3A/62 THEN R ELSE N/A | SM-over-IP receiver |
| C57 | IF A.3A/50 AND A.16/13 THEN R ELSE N/A | MTSI AND communication waiting |
| C58 | IF A.6a/2 AND A.8/5 THEN R ELSE N/A | IMS security AND Indicate Sigcomp |
| C59 | IF A.12/26 THEN R ELSE N/A | IMS emergency services |
| C60 | IF A.12/28 THEN R ELSE N/A | P-CSCF discovery in home network while roaming |
| C61 | IF A.3A/50 AND A.16/9 AND A.16/14 THEN R ELSE N/A | UE supporting MTSI and Conference and three way session |
| C62 | IF A.12/26 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 | IMS emergency services and emergency speech call and UTRAN or GERAN |
| C63 | Void | |
| C64 | IF A.12/26 AND ([36.523-2] A.4.1-1/1 OR [36.523-2] A.4.1-1/2) THEN R ELSE N/A | IMS emergency services and EUTRA FDD or EUTRA TDD |
| C65 | IF A.12/26 AND [36.523-2] A.4.1-1/6 AND [34.123-2] A.3/2 THEN R ELSE N/A | IMS emergency services and UTRA and PS domain |
| C66 | IF 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)36.523-2) THEN R ELSE N/A | Speech and IMS emergency call and emergency call over GERAN or UTRAN |
| C67 | IF A.12/26 and A.3A/61 THEN R ELSE N/A | IMS emergency services and SM-over-IP sender |
| C68 | IF A.3A/50 AND A.4/2B AND A.15/1 AND A.18/1 THEN R ELSE N/A | MTSI AND Initiating session AND MTSI speech AND E-UTRA |
| C69 | IF A.3A/50 AND A.4/2B AND A.15/1 AND A.15/3 AND A.18/1 THEN R ELSE N/A | MTSI AND Initiating session AND MTSI speech AND MTSI video AND E-UTRA |
| C70 | IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/AA THEN R ELSE N/A | MTSI AND MTSI speech AND MTSI video AND MTSI Video H.264 CBP Level 1.2 |
| C71 | IF A.3A/50 AND A.4/2B AND A.15/1 AND A.15/3 AND A.15/AA THEN R ELSE N/A | MTSI AND Initiating session AND MTSI speech AND MTSI video AND MTSI Video H.264 CBP Level 1.2 |
| C72 | IF A.12/26 AND A.3A/50 AND A.15/1 AND A.12/33 THEN R ELSE N/A | IMS emergency services and MTSI and speech and Communication Hold during emergency call. |
| C73 | IF A.12/26 AND A.12/27 AND A.3A/50 AND A.15/1 THEN R ELSE N/A | IMS emergency services and Geolocation Information and MTSI and speech |
| C74 | IF A.12/26 AND [3] A.2/2 AND [73] A.4.1-1/4 THEN R ELSE N/A | IMS emergency services 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 | Speech and IMS emergency call and emergency call over 1xRTT |
| C76 | IF A.12/26 AND A.12/27 THEN R ELSE N/A | IMS emergency services and Geolocation Information |

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.

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 | Reference | 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 | Reference | Status | Release | Support |
|------|--|-------------------|--------|---------|---------|
| 50 | Multimedia telephony service participant | 24.173 [55] | o | Rel-8 | |
| | | IR.92 [72], 2.2.1 | m | | |
| 61 | SM-over-IP sender | 24.341 [66] | o | Rel-8 | |
| 62 | SM-over-IP receiver | 24.341 [66] | o | Rel-8 | |

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 | Reference | Status | Release | Support |
|------|---|--|---------------|---------|---------|
| | Capabilities within main protocol | | | | |
| 2B | initiating a session? | 24.229 [10], A.2.1.2; RFC 3261 [15], 13 | o | Rel-5 | |
| 2C | initiating a session which require local and/or remote resource reservation? | 24.229 [10], A.2.1.2; RFC 3262 [27] | 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 | |
| | | IR.92 [72], 2.4.1 | m | | |
| 53 | obtaining and using GRUUs in the Session Initiation Protocol (SIP) | 24.229 [10], A.2.1.2 | m (note 2) | Rel-7 | |
| | 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 2: 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 | Support |
|---------------------------|---|--------------------------|--------|---------|---------|
| 1 | GIBA | 24.229 [10] | o.1 | Rel-8 | |
| 2 | IMS security | 24.229 [10] | o.1 | Rel-8 | |
| 3 | GAA XCAP authentication | 33.222 [63]; 24.109 [64] | o.2 | Rel-7 | |
| 4 | HTTP Digest XCAP authentication | RFC 2617 [65] | o.2 | Rel-7 | |
| 5 | Void | | | | |
| Conditions/Options | | | | | |
| o.1 | At least one of these options has to be supported | | | | |
| o.2 | At least one of these options has to be supported if the UE supports XCAP | | | | |

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 | Reference | Status | Release | Mnemonic | Support |
|------|-------------------|------------------|--------|---------|----------|---------|
| 1 | IPv4 | 23.221 [13], 5.1 | o | Rel-5 | | |
| 2 | IPv6 | 23.221 [13], 5.1 | m | Rel-5 | | |

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 | | Reference | Status | Release | 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 | |

A.4.3 Void

A.4.4 Void

A.4.5 Additional information

Table A.12: Additional information

| Item | Additional information | Ref. | 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 | | |
| 5 | UE capable of being configured to initiate P-CSCF discovery via PCO | 24.229 [10], 9.2.1 | o | Rel-5 | | |
| 6 | Void | | | | | |
| 7 | UE capable of being configured to initiate P-CSCF discovery via DHCPv6 | 24.229 [10], 9.2.1 | o | Rel-5 | | |
| 8 | UE supports P-CSCF discovery via PCO | 24.229 [10], 9.2.1 | o | Rel-5 | | |
| 9 | Void | | | | | |
| 10 | UE supports P-CSCF discovery via DHCPv6 | 24.229 [10], 9.2.1 | o | Rel-5 | | |
| 11 | Void | | | | | |
| 12 | UE capable of initiating a bidirectional voice session over IMS | 24.229 [10], 5.1.6 | o | Rel-5 | | |
| 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 | UE suppresses RTCP during the active two-way voice sessions | 26.114 [56], 7.3.1 IR.92 [72], 3.2.4 | o m | Rel-7 | | |

| | | | | | | |
|----|--|------------------------|---|--------|--|--|
| 23 | UE supports sending RTCP while call is put on hold | 26.114 [56], 7.3.1 | o | Rel-7 | | |
| | | IR.92 [72], 3.2.4 | m | | | |
| 24 | UE supports no reply timer setting | 24.604 [68], 4.9.1.4 | o | Rel-8 | | |
| | | IR.92 [72], 2.3.8 | m | | | |
| 25 | UE supports sending DTMF events over RTP | 26.114 [56], Annex G | o | Rel-7 | | |
| | | IR.92 [72], 3.3 | m | | | |
| 26 | UE supports IMS emergency services | 24.229 [10], 5.1.6 | o | Rel-9 | | |
| 27 | UE uses Geolocation header to provide its geographical location for emergency session setup | 24.229 [10], 4.7 | o | Rel-9 | | |
| 28 | UE supports P-CSCF discovery in home network while roaming | 24.229 [10], L.2.2.1 | o | Rel-8 | | |
| 29 | UE supports emergency speech call over 1xRTT | C.S0005-E [74] | | | | |
| 30 | UE supports Session-ID | 24.229 [10], 4.10.1 | o | Rel-9 | | |
| 31 | UE supports end-to-access-edge media security using SDES | 24.229 [10], 4.2.B.2 | o | Rel-9 | | |
| 32 | UE indicates video media feature tag in REGISTER and INVITE request | 26.114 [56], 5.2.2 | o | Rel-7 | | |
| | | IR.94 [75], 2.2 | m | | | |
| 33 | UE supports Communication Hold during emergency call | 23.167 [76], 7.1.1 | o | Rel-9 | | |
| 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 | | |

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 | Ref. | 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 | | |
| 2 | UE supports P-CSCF discovery via DHCPv4 | 23.981 [18], 5.2.1 | o | Rel-5 | | |

A.4.7 MTSI media

Table A.15: MTSI media

| Item | Media | Ref. | Status | Release | Mnemonic | Support |
|------|------------------------------------|-----------------------|--------|---------|----------|---------|
| 1 | Speech | 26.114 [56], 5.2.1 | o | Rel-7 | | |
| | | IR.92 [72], 3.2 | m | | | |
| 2 | Speech, AMR wideband | 26.114 [56], 5.2.1 | o | Rel-7 | | |
| 3 | Video | 26.114 [56], 5.2.2 | o | Rel-7 | | |
| | | IR.94 [75], 3.3 | m | | | |
| 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 | Text, RTP | 26.114 [56], 5.2.3 | o | Rel-7 | | |
| 8 | Text, MSRP | 24.247 [17], 8.3 | o | Rel-7 | | |
| AA | Video codec H.264 CBP Level 1.2 | 26.114 [56], 5.2.2 | o | Rel-8 | | |
| | | IR.94 [75], 3.3 | m | | | |

A.4.8 MTSI supplementary services

Table A.16: MTSI supplementary services

| Item | Service | Ref. | Status | Release | Mnemonic | Support |
|------|---|----------------------|--------|---------|----------|---------|
| 1 | Originating Identification Presentation | 24.173 [55], Annex A | o | Rel-7 | OIP | |
| | | IR.92 [72], 2.3 | m | | | |
| 2 | Originating Identification Restriction | 24.173 [55], Annex A | o | Rel-7 | OIR | |
| | | IR.92 [72], 2.3 | m | | | |
| 3 | Terminating Identification Presentation | 24.173 [55], Annex B | o | Rel-7 | TIP | |
| | | IR.92 [72], 2.3 | m | | | |
| 4 | Terminating Identification Restriction | 24.173 [55], Annex B | o | Rel-7 | TIR | |
| | | IR.92 [72], 2.3 | m | | | |
| 5 | Communication Diversion | 24.173 [55], Annex C | o | Rel-7 | CDIV | |
| | | IR.92 [72], 2.3 | m | | | |
| 6 | Communication Hold | 24.173 [55], Annex D | o | Rel-7 | HOLD | |
| | | IR.92 [72], 2.3 | m | | | |
| 7 | Communication Barring | 24.173 [55], Annex E | o | Rel-7 | CB | |
| | | IR.92 [72], 2.3 | m | | | |
| 8 | Message Waiting Indication | 24.173 [55], Annex F | o | Rel-7 | MWI | |
| | | IR.92 [72], 2.3 | m | | | |
| 9 | Conference | 24.173 [55], Annex G | o | Rel-7 | CONF | |
| | | IR.92 [72], 2.3 | m | | | |
| 10 | Explicit Communication Transfer - blind transfer | 24.173 [55], Annex H | o | Rel-7 | ECT-b | |
| 11 | Explicit Communication Transfer - consultative transfer | 24.173 [55], Annex H | o | Rel-7 | ECT-c | |
| 12 | Anonymous Communication Rejection | 24.173 [55], Annex E | o | Rel-7 | ACR | |
| 13 | Communication Waiting | 24.615 [69] | o | Rel-7 | CW | |
| | | IR.92 [72], 2.3 | m | | | |
| 14 | Three way session | 24.147 [19] | o | Rel-8 | TWS | |
| | | IR.92 [72], 2.3 | m | | | |

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 Radio Technologies

| Item | UE Radio Technologies | Ref. | Status | Release | Mnemonic | Support |
|------|-----------------------|-------------------|--------|---------|----------|---------|
| 1 | E-UTRA | 36.101 [70] | o | Rel-8 | | |
| 2 | UTRA | 21.904 [71], 5 | o | R99 | | |

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] | |

Annex B (informative): Change history

| Meeting -1st- Level | Doc-1st- Level | CR | Rev | Subject | Cat | Version - Current | Version -New | Doc-2nd- Level |
|---------------------------|-------------------|----|-----|---------|-----|-------------------------|-----------------|-------------------|
|---------------------------|-------------------|----|-----|---------|-----|-------------------------|-----------------|-------------------|

| 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 | 7.2.0 | R5-081500 |
| RP-40 | RP-080376 | 0028 | | Media change capabilities | F | 7.1.0 | 7.2.0 | R5-081084 |
| RP-40 | RP-080376 | 0029 | | Applicability for new MTSI test case MT MTSI Speech call | F | 7.1.0 | 7.2.0 | R5-081085 |
| RP-40 | RP-080376 | 0030 | | Applicability for new MTSI test case MT MTSI Video call | F | 7.1.0 | 7.2.0 | R5-081086 |
| RP-40 | RP-080376 | 0031 | | Applicability for new MTSI test case Speech AMR indicate selective codec modes | F | 7.1.0 | 7.2.0 | R5-081088 |
| RP-40 | RP-080376 | 0032 | | Applicability for new MTSI test case Speech AMR-WB indicate selective codec modes | F | 7.1.0 | 7.2.0 | R5-081089 |
| RP-40 | RP-080376 | 0033 | | Applicability for new MTSI test case MT Speech add video remove video | F | 7.1.0 | 7.2.0 | R5-081090 |
| RP-40 | RP-080376 | 0034 | | Applicability for new MTSI test case MT Speech add video remove speech | F | 7.1.0 | 7.2.0 | R5-081091 |
| 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 |

| Meeting -1st-Level | Doc-1st-Level | CR | Rev | Subject | Cat | Version - Current | Version -New | Doc-2nd-Level |
|--------------------|---------------|------|-----|---|-----|-------------------|--------------|---------------|
| 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, addressing 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 |

| Meeting -1st-Level | Doc-1st-Level | CR | Rev | Subject | Cat | Version - Current | Version -New | Doc-2nd-Level |
|--------------------|---------------|------|-----|---|-----|-------------------|--------------|---------------|
| 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 |

| Meeting -1st- Level | Doc-1st- Level | CR | Rev | Subject | Cat | Version - Current | Version -New | Doc-2nd- Level |
|---------------------------|-------------------|------|-----|--|-----|-------------------------|-----------------|-------------------|
| 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 |

History

| Document history | | |
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