## ETSITS 134 229-2 V13.2.0 (2017-04)



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 13.2.0 Release 13)



# Reference RTS/TSGR-0534229-2vd20 Keywords LTE.UMTS

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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  $2^{rd}$  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 3<sup>rd</sup> 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.

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.

- 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 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.
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[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".

## 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.

Table 1: Applicability of tests

Clause	Title	Release	Applicability	Comments
PDP Context				
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 Disc	overy			
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 7.9	Void P-CSCF discovery from ISIM	Rel-8	C60	UE supporting P-CSCF discovery in
<b>D</b> 1 4 41				home network while roaming
Registration	Trust to a			Tue (1 1140 );
8.1	Initial registration	Rel-8	C17	UE supporting IMS security
8.2	User Initiated Re-Registration  Mobile Initiated Deregistration	Rel-8 Rel-8	C17 C80	UE supporting IMS security UE supporting IMS security and IMS deregistration
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 8.11	Initial registration using GIBA Initial registration using IMS AKA and GIBA	Rel-8 Rel-8	C18 C19	UE supporting GIBA only UE supporting IMS security and GIBA
0.40	against a network with GIBA support only	D 10	040	LIE (CODA L
8.12	User initiated re-registration using GIBA	Rel-8	C18	UE supporting GIBA only
8.13 8.14	User initiated de-registration using GIBA Initial registration for three implicit	Rel-8 Rel-8	C18 C85	UE supporting GIBA only UE supporting IMS security and
0.45	registration sets	D-140	047	Multiple IMPU
8.15 8.16	Refresh for ISIM parameters User initiated re-registration- 423 Interval Too Brief	Rel-10 Rel-9	C17 C17	UE supporting IMS security UE supporting IMS security
Authentication			l	
9.1	Invalid Behaviour - MAC Parameter Invalid	Rel-8	C17	UE supporting IMS security
9.1	Invalid Behaviour - MAC Parameter Invalid Invalid Behaviour - SQN out of range	Rel-8	C17	UE supporting IMS security  UE supporting IMS security
Subscription		1.0.0		1 0 = oupporting into occurry
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	1			
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		ļ	
12.4	Void			
12.5	Void		1	
12.6	Void			
	<del></del>			<del></del>

Clause	Title	Release	Applicability	Comments
12.7	Void			
12.8	Void			

Clause	Title	Release	Applicability	Comments
12.9	Void			
12.10	Void	1		
12.11	Void			
12.11	MO MTSI Voice Call Successful with	Dalo	000	LIC accompanies a MTCL and an apple
	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	Void			
12.18a	Void			
12.18b	Void			
12.19	Void			
12.19a	Void			
12.19a	Void			
12.20	Void	-		
12.20a	Void	<u> </u>		
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
12.23	MO MTSI speech call / EVS	Rel-12	C83	UE supporting MTSI and MTSI speech EVS (see NOTE 3 below)
12.24	MT MTSI speech call / EVS	Rel-12	C83	UE supporting MTSI and MTSI speech EVS (see NOTE 3 below)
12.25	MO MTSI speech call / EVS / AMR-WB	Rel-12	C83	UE supporting MTSI, MTSI speech EVS. (see NOTE 3 below)
12.26	MT MTSI speech call / EVS / AMR-WB IO mode	Rel-12	C83	UE supporting MTSI, MTSI speech EVS (see NOTE3 below)
SIP Compre	ession (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 NOTE 1 below)
13.3	SigComp in the MT Call	FFS	FFS	FFS (see NOTE 1 below)
13.4	Void			(0.0
Emergency		1	L	
14.1	Void	1		
14.2	Void			
	tary Services			
15.1	Originating Identification Presentation	Rel-8	C43	UE supporting MTSI and Originating Identification Presentation and (GBA or HTTP Digest) for XCAP
15.2	Originating Identification Restriction	Rel-8	C88	authentication (NOTE 4)  UE supporting MTSI and Originating Identification Restriction - Configuration and (GBA or HTTP Digest) (NOTE 5)
15.2a	Originating Identification Restriction / Signalling	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 and (GBA or HTTP Digest) (NOTE 5)
15.4	Terminating Identification Restriction	Rel-8	C89	UE supporting MTSI and Terminating Identification Restriction - Configuration and (GBA or HTTP Digest) (NOTE 4)
15.4a	Terminating Identification Restriction / Signalling	Rel-8	C49	UE supporting MTSI and Terminating Identification Restriction
15.5	Communication Forwarding unconditional	Rel-8	C30	UE supporting MTSI and Communication Diversion and (GBA or HTTP Digest) (NOTE 5)
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 and (GBA or HTTP Digest) (NOTE 5)
				[ TITTE Digest) (NOTE 3)

Clause	Title	Release	Applicability	Comments
15.9	Communication Forwarding on Busy	Rel-8	C30	UE supporting MTSI and Communication Diversion and (GBA or HTTP Digest) (NOTE 5)
15.10	Communication Forwarding on Not logged-in	Rel-8	C30	UE supporting MTSI and Communication Diversion and (GBA or HTTP Digest) (NOTE 4)
15.10a	Communication Forwarding on Not reachable	Rel-8	C30	UE supporting MTSI and Communication Diversion and (GBA or HTTP Digest) (NOTE 5)
15.11	MO Call Hold without announcement	Rel-8	C23	UE supporting MTSI and speech and Communication Hold
15.11a	MO Video Call Hold without announcement	Rel-8	C77	UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and Communication Hold
15.12	MT Call Hold without announcement	Rel-8	C23	UE supporting MTSI and speech and Communication Hold
15.12a	MT Video Call Hold without announcement	Rel-8	C77	UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and Communication Hold
15.13	Incoming Communication Barring except for a specific user	Rel-8	C24	UE supporting MTSI and Communication Barring and (GBA or HTTP Digest) (NOTE 5)
15.14	Incoming Communication Barring for anonymous users	Rel-8	C45	UE supporting MTSI and Communication Barring and Anonymous Communication Rejection and (GBA or HTTP Digest) (NOTE 5)
15.14a	Incoming Communication Barring while roaming	Rel-8	C24	UE supporting MTSI and Incoming Communication Barring and (GBA or HTTP Digest) (NOTE 5)
15.14b	Outgoing Communication Barring while roaming	Rel-8	C84	UE supporting MTSI and Outgoing Communication Barring and (GBA or HTTP Digest) (NOTE 4)
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
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
15.19a	Inviting user to conference by sending a REFER request to the conference focus / Video	Rel-8	C78	UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and Conference
15.21	Joining a conference after being invited to it	Rel-8	C86	UE supporting MTSI and Conference and Network Invitation to Conference and Out-of-Dialog REFER
15.21a	Three way session creation	Rel-8	C61	UE supporting MTSI and Conference and three way session
15.21b	Joining a conference after being invited to it / Video	Rel-8	C87	UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and Conference and Network Invitation to Conference and Out-of- Dialog REFER
15.21c	Three way session creation / Video	Rel-8	C79	UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 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

Clause	Title	Release	Applicability	Comments
15.29	GBA authentication	Rel-8	C81	UE supporting MTSI and Originating
				Identification Presentation and GBA
				for XCAP authentication.
Codec selec	eting			
16.1	Void			
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 selective 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	Void			
16.12	Void			
16.13	Void			
Media use c	ases			

Clause	Title	Release	Applicability	Comments
17.1	MO Speech, add video remove video	Rel-8	C71	UE supporting MTSI and Initiating
17.1	We opecal, and video famove video	TKCI O		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	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			
SMS over IM	S			
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 is capable of obtaining location 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)
19.1.3b	Void			
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
19.1.6	Emergency call with emergency registration / Success / GIBA against a network with GIBA support only	Rel-9	C124	UE supports IMS security, GIBA and IMS emergency service.
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 IMS emergency services and MTSI and speech
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	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)
19.3.2b	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	Speech and IMS emergency call and emergency call over UTRAN or GERAN
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	Speech and IMS emergency call and emergency call over UTRAN or GERAN
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

Clause	Title	Release	Applicability	Comments
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
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
19.4.6	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.
19.4.7	Emergency call without emergency registration / Failure of registration / against a network with GIBA support only	Rel-9	C125	UE supports IMS emergency service and IMS emergency call without registration after rejection of emergency registration.
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 MT 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
Customized	Alerting Tones (CAT)			
20.1	Mobile Originating CAT - Forking Model	Rel-8	C82	MTSI and speech and early media
Registration				
G.8.1 Call Control	Initial Registration / WLAN	Rel-11	C108	UE supporting MTSI and WLAN
G.12.1	MO MTSI speech call / WLAN	Rel-11	C108	UE supporting MTSI and WLAN
G.12.1 G.12.2	MT MTSI speech call / WLAN	Rel-11	C108	UE supporting MTSI and WLAN
G.12.2 G.12.3	MO MTSI video call / WLAN	Rel-11	C108	UE supporting MTSI and WLAN
G.12.4	MT MTSI video call / WLAN	Rel-11	C108	UE supporting MTSI and WLAN
	ary Services / WLAN			1
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Clause	Title	Release	Applicability	Comments
G.15.1	Originating Identification Presentation / WLAN	Rel-11	C92	UE supporting MTSI and Originating Identification Presentation and WLAN
G.15.2	Originating Identification Restriction / WLAN	Rel-11	C93	UE supporting MTSI and Originating Identification Restriction and WLAN
G.15.3	Terminating Identification Presentation / WLAN	Rel-11	C94	UE supporting MTSI and Terminating Identification Presentation and WLAN
G.15.4	Terminating Identification Restriction / WLAN	Rel-11	C95	UE supporting MTSI and Terminating Identification Restriction and WLAN
G.15.5	Communication Forwarding unconditional / WLAN	Rel-11	C101	UE supporting MTSI and Communication Diversion and WLAN
G.15.6	Communication Forwarding on non Reply: activation / WLAN	Rel-11	C101	UE supporting MTSI and Communication Diversion and WLAN
G.15.7	Communication Forwarding on non reply: MO call initiation / WLAN	Rel-11	C102	UE supporting MTSI and speech and Communication Diversion and WLAN
G.15.8	Communication Forwarding on Busy / WLAN	Rel-11	C101	UE supporting MTSI and Communication Diversion and WLAN
G.15.9	Communication Forwarding on Not logged- in / WLAN	Rel-11	C101	UE supporting MTSI and Communication Diversion and WLAN
G.15.10	Communication Forwarding on Not reachable /	Rel-11	C101	UE supporting MTSI and Communication Diversion and WLAN
G.15.11	MO Call Hold without announcement / WLAN	Rel-11	C109	UE supporting MTSI and speech and Communication Hold and WLAN
G.15.12	MT Call Hold without announcement / WLAN	Rel-11	C109	UE supporting MTSI and speech and Communication Hold and WLAN
G.15.13	MO video Call Hold without announcement / WLAN	Rel-11	C110	UE supporting MTSI and MTSI speech and MTSI video and Communication Hold and WLAN
G.15.14	MT video Call Hold without announcement / WLAN	Rel-11	C110	UE supporting MTSI and MTSI speech and MTSI video and Communication Hold and WLAN
G.15.15	Incoming Communication Barring while roaming / WLAN	Rel-11	C111	UE supporting MTSI and 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 supporting 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 supporting MTSI and 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 supporting MTSI and Conference and WLAN
G.15.19	Joining a conference after being invited to it / WLAN	Rel-11	C115	UE supporting MTSI and Conference and Network Invitation to Conference and WLAN
G.15.20	Three way session creation / WLAN	Rel-11	C116	UE supporting MTSI and Conference and three way session 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 supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and Conference and WLAN
G.15.22	Joining a conference after being invited to it with video / WLAN	Rel-11	C118	UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and Conference and Network Invitation to Conference and WLAN
G.15.23	Three way session creation for video / WLAN	Rel-11	C119	UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and Conference and three way session and WLAN
G.15.24	Communication Waiting and answering the call / WLAN	Rel-11	C120	MTSI and Communication Waiting and WLAN
G.15.25	Communication Waiting and cancelling the call / WLAN	Rel-11	C120	MTSI and Communication Waiting and WLAN
Media use c	ases / WLAN			
G.17.1	MO Speech, add video remove video / WLAN	Rel-11	C106	UE supporting MTSI and Initiating session and MTSI speech and MTSI video H.264 CBP Level 1.2 and WLAN
G.17.2	MT Speech, add video remove video / WLAN	Rel-11	C107	UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and WLAN

Clause	Title	Release	Applicability	Comments
G.19.1	Emergency call with emergency registration / WLAN	Rel-11	C121	UE supports IMS emergency services and WLAN
Registration	/ Fixed Broadband Access			
H.8.1	Initial registration / Fixed Broadband Access	Rel-12	C90	UE supporting SIP Digest without TLS and Fixed Broadband
H.8.2	User Initiated Re-Registration / Fixed Broadband Access	Rel-12	C90	UE supporting SIP Digest without TLS and Fixed Broadband
H.8.3	User Initiated Deregistration / Fixed Broadband Access	Rel-12	C100	UE supporting 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 supporting 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 supporting SIP Digest without TLS and Fixed Broadband
Authentication	on / Fixed Broadband Access			
H.9.1	SIP digest without TLS – abnormal procedures – 403 Forbidden / Fixed Broadband Access	Rel-12	C90	UE supporting SIP Digest without TLS and Fixed Broadband
Notification /	Fixed Broadband Access			
H.11.2	Network initiated re-authentication / Fixed Broadband Access	Rel-12	C90	UE supporting SIP Digest without TLS and Fixed Broadband
	Fixed Broadband Access			
H.12.1	Originating - 503 Service Unavailable / Fixed Broadband Access	Rel-12	C91	UE supporting MTSI and speech and SIP Digest without TLS and Fixed Broadband
H.12.2	Originating - 504 Service Time-out / Fixed Broadband Access	Rel-12	C91	UE supporting MTSI and speech and SIP Digest without TLS and Fixed Broadband
H.12.3	Originating MTSI Voice Call Successful with preconditions / Fixed Broadband Access	Rel-12	C91	UE supporting MTSI and speech and SIP Digest without TLS and Fixed Broadband
H.12.4	Originating MTSI Voice Call Successful without preconditions / Fixed Broadband Access	Rel-12	C105	UE supporting MTSI and speech and SIP Digest without TLS and Fixed Broadband and no preconditions
H.12.5	Terminating MTSI Voice call with preconditions / Fixed Broadband Access	Rel-12	C91	UE supporting MTSI and speech and SIP Digest without TLS and Fixed Broadband
H.12.6	Terminating MTSI voice call without preconditions / Fixed Broadband Access	Rel-12	C105	UE supporting MTSI and speech and SIP Digest without TLS and Fixed Broadband and no preconditions
H.12.7	Originating MTSI Video call without preconditions / Fixed Broadband Access	Rel-12	C122	UE supporting MTSI and speech and video and SIP Digest without TLS and Fixed Broadband and no preconditions
H.12.8	Terminating MTSI Video call without preconditions / Fixed Broadband Access	Rel'12	C122	UE supporting MTSI and speech and video and SIP Digest without TLS and Fixed Broadband and no preconditions

Clause	Title	Release	Applicability	Comments
H.15.1	Originating Identification Presentation / Fixed Broadband Access	Rel-12	C96	UE supporting MTSI and Originating Identification Presentation and Fixed Broadband
H.15.2	Originating Identification Restriction / Fixed Broadband Access	Rel-12	C97	UE supporting MTSI and Originating Identification Restriction and Fixed Broadband
H.15.3	Terminating Identification Presentation / Fixed Broadband Access	Rel-12	C98	UE supporting MTSI and Terminating Identification Presentation and Fixed Broadband
H.15.4	Terminating Identification Restriction / Fixed Broadband Access	Rel-12	C99	UE supporting MTSI and Terminating Identification Restriction and Fixed Broadband
H.15.5	Communication Forwarding unconditional / Fixed Broadband Access	Rel-12	C103	UE supporting MTSI and Communication Diversion and Fixed Broadband
H.15.6	Communication Forwarding on non Reply: activation / Fixed Broadband Access	Rel-12	C103	UE supporting MTSI and Communication Diversion and Fixed Broadband
H.15.7	Communication Forwarding on non reply: MO call initiation / Fixed Broadband Access	Rel-12	C104	UE supporting MTSI and speech and Communication Diversion and Fixed Broadband
H.15.8	Communication Forwarding on Busy / Fixed Broadband Access	Rel-12	C103	UE supporting MTSI and Communication Diversion and Fixed Broadband
H.15.9	Communication Forwarding on Not logged- in / Fixed Broadband	Rel-12	C103	UE supporting MTSI and Communication Diversion and Fixed Broadband
H.15.10	Communication Forwarding on Not reachable / Fixed Broadband	Rel-12	C103	UE supporting MTSI and Communication Diversion and Fixed Broadband
H.15.11	Self-Configuration via SIP based procedure / Fixed Broadband Access	Rel-12	C123	UE supporting MTSI and Communication Diversion and SIP- based configuration and Fixed Broadband
	ases / Fixed Broadband Access			
H.17.1	Originating Voice, add video remove video / Fixed Broadband Access	Rel-12	C122	UE supporting MTSI and speech and video and SIP Digest without TLS and Fixed Broadband and no preconditions
H.17.2	Terminating Voice, add video remove video / Fixed Broadband Access	Rel-12	C122	UE supporting MTSI and speech and video and SIP Digest without TLS and Fixed Broadband and no preconditions

	Conditions/Options	
C00	Void	
C01	IF A.4/2B THEN R ELSE N/A (condition unused, see NOTE 1 below)	Initiating session
C02	Void	
C03	IF A.4/2B AND A.4/16 THEN R ELSE N/A (condition unused, see NOTE 1)	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  Void	IMS security AND indication of the willingness to receive the responses and requests compressed from initial REGISTER onwards by using the "comp=sigcomp" parameter
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 AND (A.6a/3 OR A.6a/4) THEN R ELSE N/A	MTSI and Incoming Communication Barring and (GBA or HTTP Digest)
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 AND (A.6a/3 OR A.6a/4) THEN R ELSE N/A	MTSI and Communication Diversion and (GBA or HTTP Digest)
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	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) THEN R ELSE N/A	MTSI and Originating Identification Presentation- and (GBA or HTTP Digest)

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 AND (A.6a/3 OR A.6a/4) THEN R ELSE N/A	MTSI and Communication Barring and Anonymous Communication Rejection and (GBA or HTTP Digest)
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	Void	
C48	IF A.3A/50 AND A.16/3 AND (A.6a/3 OR A.6a/4) THEN R ELSE N/A	MTSI and Terminating Identification Presentation and (GBA or HTTP Digest)
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	Void	
C52	Void	
C53	Void	
C54	Void	
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
C61	IF A.3A/50 AND A.16/9 AND A.16/14 THEN R ELSE N/A	while roaming UE supporting MTSI and Conference
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)	and three way session IMS emergency services and
000	THEN R ELSE N/A	emergency speech call and UTRAN or GERAN
C63	Void	1040
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.12/26 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)36.523-2THEN R ELSE N/A	Speech and IMS emergency call and emergency call over GERAN or UTRAN
C67	IF A.12/26 and A.3A/63 THEN R ELSE N/A	IMS emergency services and SM- over-IP receiver on emergency PDN
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.15/9 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.15/9 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.3A/50 AND A.15/1 THEN R ELSE N/A	IMS emergency services 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 capable of obtaining location Information
C77	IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/9 AND A.16/6 THEN R ELSE N/A	MTSI AND MTSI speech AND MTSI video AND MTSI Video H.264 CBP Level 1.2 and Communication Hold
C78	IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/9 AND A.16/9 THEN R ELSE N/A	UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and Conference
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 THEN R ELSE N/A	UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and Conference and three way session
C80	IF A.6a/2 AND A.12/39 THEN R ELSE N/A	IMS security and UE supporting IMS

		T
C81	IF A.3A/50 AND A.16/1 AND A.6a/3 THEN R ELSE N/A	MTSI and Originating Identification Presentation and GBA for XCAP
		authentication.
C82	IF A.3A/50 AND A.15/1 AND A.12/45 THEN R ELSE N/A	MTSI and speech and early media
C83	IF A.3A/50 AND A.15/10 THEN R ELSE N/A	MTSI and MTSI speech EVS.
C84	IF A.3A/50 AND A.16/15 AND (A.6a/3 OR A.6a/4) THEN R ELSE N/A	MTSI and Outgoing Communication Barring and (GBA or HTTP Digest)
C85	IF A.6a/2 AND A.12/48 THEN R ELSE N/A	IMS security and Multiple IMPU
C86	IF A.3A/50 AND A.15/1 AND A.16/9 AND A.16/16 AND A.16/17 THEN R	MTSI and Conference and Network
	ELSE N/A	Invitation to Conference and Out-of-
C87	IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/9 AND A.16/9 AND A.16/16	Dialog REFER MTSI and MTSI speech and MTSI
007	AND A.16/17 THEN R ELSE N/A	video H.264 CBP Level 1.2 and
	7445 7416/17 THERE ESETAN	Conference and Network Invitation to
		Conference and Out-of-Dialog REFER
C88	IF A.3A/50 AND A.16/2A AND (A.6a/3 OR A.6a/4) THEN R ELSE N/A	MTSI and Originating Identification
		Restriction Configuration and (GBA or
C89	IF A.3A/50 AND A.16/4A AND (A.6a/3 OR A.6a/4) THEN R ELSE N/A	HTTP Digest) MTSI and Terminating Identification
Cos	IF A.SA/30 AND A. 10/4A AND (A.0a/3 OK A.0a/4) THEN K ELSE N/A	Restriction - Configuration and (GBA
		or HTTP Digest)
C90	IF A.6a/5 AND A.18/3 THEN R ELSE N/A	UE supporting SIP Digest without TLS
		and Fixed Broadband
C91	IF A.6a/5 AND A.18/3 AND A.3A/50 AND A.15/1 THEN R ELSE N/A	UE supporting MTSI and speech and
		SIP Digest without TLS and Fixed Broadband
C92	IF A.3A/50 AND A.16/1 AND A.18/4 THEN R ELSE N/A	MTSI and Originating Identification
	II A.SA/SO AND A.TO/I AND A.TO/I THEN IN ELGE N/A	Presentation and WLAN
C93	IF A.3A/50 AND A.16/2 AND A.18/4 THEN R ELSE N/A	MTSI and Originating Identification
C94	IF A.3A/50 AND A.16/3 AND A.18/4 THEN R ELSE N/A	Restriction and WLAN MTSI and Terminating Identification
094	II A.SA/SO AND A. 10/3 AND A. 10/4 THEN IN ELSE IN/A	Presentation and WLAN
C95	IF A.3A/50 AND A.16/4 AND A.18/4 THEN R ELSE N/A	MTSI and Terminating Identification
000	IE A 2A/FO AND A 4C/4 AND A 40/2 THEN DELCE N/A	Restriction and WLAN
C96	IF A.3A/50 AND A.16/1 AND A.18/3 THEN R ELSE N/A	MTSI and 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 Originating Identification
C98	IF A.3A/50 AND A.16/3 AND A.18/3 THEN R ELSE N/A	Restriction and Fixed Broadband MTSI and Terminating Identification
		Presentation and Fixed Broadband
C99	IF A.3A/50 AND A.16/4 AND A.18/3 THEN R ELSE N/A	MTSI and Terminating Identification Restriction and Fixed Broadband
C100	IF A.6a/5 AND A.18/3 AND A.12/39 THEN R ELSE N/A	UE supporting 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 Communication Diversion and WLAN
C102	IF A.3A/50 AND A.15/1 AND A.16/5 AND A.18/4 THEN R ELSE N/A	MTSI and speech and Communication
C103	IF A.3A/50 AND A.16/5 AND A.18/3 THEN R ELSE N/A	Diversion and WLAN MTSI and Communication Diversion
C103	IF A.SA/SU AND A. 10/S AND A. 10/S THEN R ELSE N/A	and Fixed Broadband
C104	IF A.3A/50 AND A.15/1 AND A.16/5 AND A.18/3 THEN R ELSE N/A	MTSI and speech and Communication
		Diversion and Fixed Broadband
C105	IF A.3A/50 AND A.6a/5 AND A.18/3 AND A.15/1 AND NOT A.4/16 THEN R	UE supporting MTSI and speech and
	ELSE N/A	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.18/4	MTSI AND Initiating session AND
0.00	THEN R ELSE N/A	MTSI speech AND MTSI video AND
		MTSI Video H.264 CBP Level 1.2 AND
C407		WLAN
C107	IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/9 AND A.18/4 THEN R ELSE N/A	MTSI AND MTSI speech AND MTSI video AND MTSI Video H.264 CBP
	1973	Level 1.2 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.18/4 THEN R ELSE N/A	MTSI and speech and Communication
C110	IF A.3A/50 AND A.15/1 AND A.15/3 AND A.16/6 AND A.18/4 THEN R ELSE	Hold and WLAN MTSI and MTSI speech and MTSI
0110	N/A	video and Communication Hold 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	MTSI and Incoming Communication
	N/A	Barring and WLAN and (GBA or HTTP
C112	IF A.3A/50 AND A.16/15 AND A.18/4 AND (A.6a/3 OR A.6a/4) THEN R	Digest) MTSI and Outgoing Communication
0112	ELSE N/A	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 Message Waiting Indication and WLAN
C114	IF A.3A/50 AND A.16/9 AND A.18/4 THEN R ELSE N/A	MTSI and Conference and WLAN
C115	IF A.3A/50 AND A.15/1 AND A.16/9 AND A.16/16 AND A.18/4 THEN R ELSE N/A	MTSI and Conference and Network Invitation to Conference and WLAN
C116	IF A.3A/50 AND A.16/9 AND A.16/14 AND A.18/4 THEN R ELSE N/A	UE supporting MTSI and Conference and three way session 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.18/4 THEN R ELSE N/A	UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and Conference and WLAN
C118	IF A.3A/50 AND A.15/1 AND A.15/3 AND A.15/9 AND A.16/9 AND A.16/16 AND A.18/4 THEN R ELSE N/A	MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and Conference and Network Invitation to Conference and WLAN
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.18/4 THEN R ELSE N/A	UE supporting MTSI and MTSI speech and MTSI video H.264 CBP Level 1.2 and Conference and three way session and WLAN
C120	IF A.3A/50 AND A.16/13 AND A.18/4 THEN R ELSE N/A	MTSI AND communication waiting and WLAN
C121	IF A.12/26 AND A.18/4 THEN R ELSE N/A	IMS emergency services 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	UE supporting MTSI and speech and video 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	UE supporting MTSI and Communication Diversion and SIP- based configuration and Fixed Broadband
C124	IF A.6a/2 AND A.6a/1 AND A.12/26 THEN R ELSE N/A	IMS security AND GIBA AND IMS emergency service
C125	IF A.12/26 AND A.12/52 THEN R ELSE N/A	IMS emergency service AND IMS emergency call without registration after rejection of emergency registration.

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.

## Annex A (normative):

## ICS proforma for 3<sup>rd</sup> 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).
0	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.
Х	prohibited (excluded)	It is not allowed to use the capability. This is more common for a profile.
c <integer></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.</integer>
o. <integer></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.</integer>

#### 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 UEUT nan	User Equipment Under Test (UEUT) identification
Hardware o	configuration:
Software c	onfiguration:
A.2.3 Name:	Product supplier
Address:	
Telephone	number:
Facsimile 1	number:
E-mail add	ress:
Additional	information:

ETSI TS 134 229-2 V13.2.0 (2017-04)

3GPP TS 34.229-2 version 13.2.0 Release 13

#### A.3 Identification of the protocol

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

#### ICS proforma tables A.4

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	m	Rel-5	
		RFC 3261 [15]			

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]	0	Rel-8	pc_MultimediaT elephonyService	
		IR.92 [83], 2.2.1	m			
61	SM-over-IP sender	24.341 [66]	0	Rel-8	pc_SMS_IP_MO	
62	SM-over-IP receiver	24.341 [66]	0	Rel-8	pc_SMS_IP_MT	
63	SM-over-IP receiver on emergency PDN	24.341 [66]	0	Rel-9	pc_SMS_IP_MT _emergency	

#### 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** 

Does the implementation support	Ref.	Status	Release	Mnemonic	Support
Capabilities within main protocol					
initiating a session?	24.229 [10], A.2.1.2; RFC 3261 [15], 13	0	Rel-5	pc_Initiate Session	
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					
integration of resource management and SIP? (use of preconditions)	24.229 [10], A.2.1.2; RFC 3312 [26]	C44	Rel-8	pc_Precon ditions	
	IR.92 [83], 2.4.1	m			
obtaining and using GRUUs in the Session Initiation Protocol (SIP)	24.229 [10], A.2.1.2	m (note 2)	Rel-7	pc_IMS_G RUUsInSI	
	Capabilities within main protocol initiating a session?  initiating a session which require local and/or remote resource reservation?  Extensions integration of resource management and SIP? (use of preconditions)  obtaining and using GRUUs in the	Capabilities within main protocol initiating a session?  initiating a session which require local and/or remote resource reservation?  integration of resource management and SIP? (use of preconditions)  Capabilities within main protocol 24.229 [10], A.2.1.2; RFC 3262 [27] UE is capable of obtaining location information  24.229 [10], A.2.1.2; RFC 3312 [26] IR.92 [83], 2.4.1  obtaining and using GRUUs in the	Capabilities within main protocol       initiating a session?     24.229 [10], A.2.1.2;     o       RFC 3261 [15], 13     and/or remote resource     24.229 [10], A.2.1.2;     c43       local and/or remote resource reservation?     RFC 3262 [27] UE is capable of obtaining location information       Extensions     and SIP? (use of preconditions)     24.229 [10], A.2.1.2;     C44       integration of resource management and SIP? (use of preconditions)     24.229 [10], A.2.1.2;     C44       integration of resource management and SIP? (use of preconditions)     24.229 [10], A.2.1.2;     m       obtaining and using GRUUs in the     24.229 [10], A.2.1.2     m (note 2)	Capabilities within main protocol       initiating a session?     24.229 [10], A.2.1.2; RFC 3261 [15], 13     o     Rel-5       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     24.229 [10], A.2.1.2; RFC 3312 [26] RFC 3312 [26]     C44     Rel-8       obtaining and using GRUUs in the     24.229 [10], A.2.1.2     m     note 2)     Rel-7	Capabilities within main protocol         initiating a session?       24.229 [10], A.2.1.2;       o       Rel-5       pc_Initiate Session         initiating a session which require local and/or remote resource reservation?       24.229 [10], A.2.1.2;       c43       Rel-8         Initiating a session which require local and/or remote resource reservation?       24.229 [10], A.2.1.2;       c43       Rel-8         Initiating a session which require local and/or remote resource reservation?       24.229 [10], A.2.1.2;       C44       Rel-8         Integration of resource management and SIP? (use of preconditions)       24.229 [10], A.2.1.2;       C44       Rel-8       pc_Preconditions         IR.92 [83], 2.4.1       m       m       pc_IMS_G

c43:

IF A.4/2B THEN o ELSE n/a - - initiating sessions.

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	Mnemoni	Suppor
					С	
1	GIBA	24.229 [10]	0.1	Rel-8	pc_IMS_G IBA_Sec	
2	IMS security (IMS AKA plus IPsec ESP)	24.229 [10]	0.1	Rel-8	pc_IMS_S ec	
3	GBA for XCAP authentication	33.220 [82] 4.5; 33.222 [63]; 24.109 [64]	0.2	Rel-8	pc_HttpG BAAuthent ication	
4	HTTP Digest for XCAP authentication	RFC 2617 [65]	0.2	Rel-8	pc_HttpDi gestAuthe ntication	
5	SIP Digest without TLS	33.203 [12]	0.1	Rel-8		
6	SIP Digest with TLS	33.203 [12]	0.1	Rel-8		
7	NASS-IMS-bundled authentication	33.203 [12]	0.1	Rel-8		
	Conditions/Options					
0.1	At least one of these options has to be	supported	•			
0.2	At least one of these options has to be	supported if the UE supports	S 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	Ref.	Status	Release	Mnemonic	Support			
1	IPv4	23.221 [13], 5.1	0	Rel-5	pc_IPv4				
2	IPv6	23.221 [13], 5.1	m	Rel-5	pc_IPv6				
NOTE 1: Fo	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	0	Rel-5	pc_IndicateS igcomp	

- 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	24.229 [10],	0	Rel-5	pc_InitiatesDedicatedPDPCo	
	configured to initiate Dedicated PDP Context	9.2.1			ntext	
5	UE capable of being	24.229 [10],	0	Rel-5	pc_InitiateP_CSCFDiscovery	
	configured to initiate P-	9.2.1	J	NOPU	_viaPCO	
	CSCF discovery via PCO					
6	Void					
7	UE capable of being	24.229 [10],	0	Rel-5	pc_InitiateP_CSCFDiscovery	
	configured to initiate P-	9.2.1			_viaDHCPv6	
	CSCF discovery via DHCPv6					
8	UE supports P-CSCF	24.229 [10],	0	Rel-5	pc_P_CSCFDiscovery_viaP	
	discovery via PCO	9.2.1			CO Sisserery_war	
9	Void					
10	UE supports P-CSCF	24.229 [10],	0	Rel-5	pc_P_CSCFDiscovery_viaD	
	discovery via DHCPv6	9.2.1			HCPv6	
11	Void UE capable of initiating a	24.229 [10],		Rel-5	no Ridiroo\/oicoOverIMS	
12	bidirectional voice session		0	C-IBA	pc_BidirecVoiceOverIMS	
	over IMS					
13	Void					
14	Void					
15	Void					
16	UE Supports " IPv6	23.981 [18],	0	Rel-6		
	address with embedded IPv4 address" in PCO IE	5.2.1				
17	UE Supports IPv4	23.981 [18],	0	Rel-6		
''	address in PCO IE	5.2.1	J	1.01.0		
18	Void					
19	UE supports UI capable of		0	Rel-7		
	showing user notification	Annex F				
	for Message Waiting Indication					
20	Void					
21	Void					
22	Void					
23	Void					
	Void					
24	UE supports no reply	24.604 [68],	0	Rel-8		
	timer setting	4.9.1.4				
		IR.92 [83], 2.3.8	m			
25	UE supports sending	2.3.6 26.114 [56],	0	Rel-7		
	DTMF events over RTP	Annex G	J	1.01.7		
		IR.92 [83], 3.3	m			
26	UE supports IMS	24.229 [10],	0	Rel-9	pc_IMS_EmergencyCall	
	emergency services	5.1.6				
27	UE is capable of obtain	24.229 [10]	0	Rel-9	pc_IMS_Geolocation	
	ing location information	4.7, 36.509 [79] 4.1, 5.5.2,				
		34.109 [78]				
		5.4.2		<u> </u>		
28	UE supports P-CSCF	24.229 [10],	0	Rel-8		
	discovery in home	L.2.2.1				
20	network while roaming	C SOOR F			no CC Em Coll in 40DTT	
29	UE supports emergency speech call over 1xRTT	C.S0005-E [74]			pc_CS_Em_Call_in_1xRTT	
30	UE supports Session-ID	24.229 [10],	0	Rel-9	pc_IMS_SessionIdSupported	
		4.10.1				
31	UE supports end-to-	24.229 [10],	0	Rel-9		
	access-edge media	4.2.B.2				
	security using SDES					

32	UE supports video	26.114 [56],	0	Rel-7	pc_IMS_Video_FeatureTag	
		5.2.2 IR.94 [75], 2.2	m	1		
33	UE supports	23.167 [76],	0	Rel-9	pc_CommunicationHold_Duri	
33	Communication Hold during emergency call	7.1.1	O	Kei-9	ngEmergencyCall	
34	UE indicates	24.237 [77],	0	Rel-10	pc_IMS_SRVCCAlert	
	g.3gpp.srvcc-alerting media feature tag in INVITE request or 180 (Ringing) response	12.2.3B.1				
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	0	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</x>	24.623 [81], Annex B.2	0	Rel-8	pc_XCAP_UsernameIsConfi guredInUE	
38	The UE use the default public user identity	IR.92 [83]	m		pc_XCAP_XUIisDefaultPubli cUserId	
	received in P-Associated - URI header in 200 OK for REGISTER as XCAP User Identity (XUI)	24.623 [81]	0	Rel-8		
39	UE has the method that support IMS deregistration	24.229 [10], 5.1.1.6	0	Rel-5	pc_IMS_Deregistration	
40	UE supports Cs to PS SRVCC	24.237 [77], 6.2.3	0	Rel-11	pc_IMS_CS_PS_SRVCC	
41	UE supports Cs to PS SRVCC in alerting state	24.237 [77], 6.2.3	0	Rel-11	pc_IMS_CS_PS_SRVCCAler t	
42	UE supports Cs to PS SRVCC and the MSC server assisted mid-call feature	24.237 [77], 6.2.3	0	Rel-11	pc_IMS_CS_PS_SRVCCMid Call	
43	Void					
44	Void					
45	UE supports early media	24.229 [10], 5.1.3	0	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					
		24.147 [19], 5.3.1.2	0			
48	UE supports Multiple IMPU	24.229 [10], 5.1.1.4, 5.1.1.1A	0	Rel-6	pc_MultipleIMPU	
49	The UE uses XCAP without PDN connection in WLAN	IR.51 [84], 4.6	0	Rel-11	pc_WLAN_XCAP	In the context of the present specification, a UE supportingIR.51 [84] shall set this PICS to true.
50	The UE uses XCAP in fixed broadband access	24.229 [10]	0	Rel-12	pc_fixed_broadband_XCAP  pc_Same_IMPU	In the context of the present specification, a UE supporting fixed broadband, A.18/3, shall set this PICS to true.
וטן	1	24.228 [10]	U	l vei-o	pc_Same_ivir'U	I

		The UE uses same public user Identity for From/To as in initial REGISTER		m					
	52	UE reattempts IMS emergency service without registration after rejection of emergency registration.	23.167 [76], 4.1	0		pc_IMS_after_EmReg_rejecti on			
	Conditions/Options								
С	1: IF [7	73] A.4.4-1/32 THEN m ELS	E o SC UE inc	dicates acc	cesstype.				

## A.4.6 Additional information for IPv4

Table A.13: Additional information for IPv4

Precon	Precondition: This table is only applicable if A.7/1 IPv4 is supported									
Item	Additional information	Reference	Status	Release	Mnemonic	Support				
	for IPv4									
	UE capable of being configured to initiate P-CSCF discovery via DHCPv4	23.981 [18], 5.2.1	0	Rel-5	pc_InitiateP_CSCFDiscovery _viaDHCPv4					
	UE supports P-CSCF discovery via DHCPv4	23.981 [18], 5.2.1	0	Rel-5	pc_P_CSCFDiscovery_viaD HCPv4					

## A.4.7 MTSI media

Table A.15: MTSI media

Item	Media	Reference	Status	Release	Mnemonic	Support
1	Speech	26.114 [56],	0	Rel-7	pc_MTSI_Speech	
		5.2.1				
		IR.92 [83], 3.2	m			
		IR 51 [84], 3	m			
2	Speech, AMR wideband	26.114 [56],	0	Rel-7	pc_MTSI_Speech_AMRWB	
		5.2.1				
		IR.51 [84], 3	m			
		IR.92 [83], 3.2	m			
3	Video	26.114 [56],	0	Rel-7	pc_MTSI_Video	
		5.2.2				
		IR.94 [75], 3.3	m			
		IR.51 [84], 3	m			
4	Video, H.263 Profile 3	26.114 [56],	0	Rel-7		
		5.2.2				
5	Video, MPEG-4	26.114 [56],	0	Rel-7		
		5.2.2				
6	Video, H.264	26.114 [56],	0	Rel-7		
		5.2.2				
7	Text, RTP	26.114 [56],	0	Rel-7	pc_MTSI_Text_RTP	
		5.2.3				
8	Text, MSRP	24.247 [17],	0	Rel-7		
		8.3			101.00.1.100.1000	
9	Video codec H.264 CBP	26.114 [56],	0	Rel-8	pc_VideoCodecH264CBP	
	Level 1.2	5.2.2				
		IR.94 [75], 3.3	m			
		IR.51 [84], 3	m			
10	Speech, EVS	26.114 [56]	0	Rel-12	pc_MTSI_Speech_EVS	

## A.4.8 MTSI supplementary services

Table A.16: MTSI supplementary services

Item	Service	Reference	Status	Release	Mnemonic	Support
1	Originating Identification	24.173 [55],	0	Rel-7	pc_MTSI_OIP	
	Presentation	Annex A				
		IR.92 [83], 2.3	m			
		IR.51 [84], 2.3	m		1,770	
2	Originating Identification Restriction	24.173 [55], Annex A	0	Rel-7	pc_MTSI_OIR	
		IR.92 [83], 2.3	m	-		
		IR.51 [84], 2.3	m		1,770	
2A	Originating Identification Restriction - Configuration	24.173 [55], Annex A	0	Rel-7	pc_MTSI_OIR_C	
3	Terminating Identification Presentation	24.173 [55], Annex B	0	Rel-7	pc_MTSI_TIP	
		IR.92 [83], 2.3	m			
		IR.51 [84], 2.3	m			
4	Terminating Identification Restriction	24.173 [55], Annex B	0	Rel-7	pc_MTSI_TIR	
		IR.92 [83], 2.3	m			
		IR.51 [84], 2.3	m			
4A	Terminating Identification Restriction - Configuration	24.173 [55], Annex A	0	Rel-7	pc_MTSI_TIR_C	
5	Communication Diversion	24.173 [55], Annex C	0	Rel-7	pc_MTSI_CommDivert	
		IR.92 [83], 2.3	m			
		IR.51 [84], 2.3	m			
6	Communication Hold	24.173 [55], Annex D	0	Rel-7	pc_MTSI_CommHold	
		IR.92 [83], 2.3	m			
		IR.51 [84], 2.3	m			
7	Incoming Communication Barring	24.173 [55], Annex E	0	Rel-7	pc_MTSI_Incoming_CB	
		IR.92 [83], 2.3	m			
		IR.51 [84], 2.3	m			
8	Message Waiting Indication	24.173 [55], Annex F	0	Rel-7	pc_MTSI_MessageWait	
	indication	IR.92 [83], 2.3	m			
		IR.51 [84], 2.3	m			
9	Conference	24.173 [55],	0	Rel-7	pc_MTSI_Conference	
		Annex G				
		IR.92 [83], 2.3	m			
		IR.51 [84], 2.3	m			
10	Explicit Communication Transfer - blind transfer	24.173 [55], Annex H	0	Rel-7		
11	Explicit Communication Transfer - consultative transfer	24.173 [55], Annex H	0	Rel-7		
12	Anonymous Communication Rejection	24.173 [55], Annex E	0	Rel-7	pc_MTSI_ACR	
13	Communication Waiting	24.615 [69]	0	Rel-7	pc_MTSI_CommWaiting	
		IR.92 [83], 2.3	m			
4.4	Thus a construction	IR.51 [84], 2.3	m	D-L0	no IMO TWO	
14	Three way session	24.147 [19]	0	Rel-8	pc_IMS_TWS	
		IR.92 [83], 2.3	m			
		IR.51 [84], 2.3	m	<u> </u>		
15	Outgoing Communication Barring	24.173 [55], Annex E	0	Rel-7	pc_MTSI_Outgoing_CB	
		IR.92 [83], 2.3	m			
		IR.51 [84], 2.3	m	1		
	1	1		1	1	1

16	Network Invitation to	24.147 [19],	0	Rel-6	pc_MTSI_NetworkInvitationT	
	Conference	5.3.1.4.2			oConference	
17	Out-of-Dialog REFER	24.147 [19],	0	Rel-6	pc_MTSI_OOD_REFER	
		5.3.1.4.2,				
		5.3.1.4.1				
18	SIP based user	24.238[85],	0	Rel-7	Pc_SIP_Based_UserConfigu	
	configuration	432			ration	

## 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		0	Rel-7		
	video					

## 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]	0	Rel-8	pc_eFDD or pc_eTDD	
2	UTRA	21.904 [71], 5	0	R99	pc_UTRA	
3	Fixed Broadband	24.229 [10], Annex E	0	Rel-7		
4	WLAN	IEEE Std 802.11	0			

## 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],	Rel-10	See 36.523-2 [73]	
		5.4.2			
		36.509 [79],			
		5.5.2			ļ

## 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-34	RP-070089	0007	+	IMS security and early IMS security capability	F	6.0.0	6.1.0	R5-063571
RP-35	RP-070089	0009	-	update  Removal of applicability statements for IMS test	F	6.0.0	6.1.0	R5-070420
			-	cases 7.7 and 7.8				
RP-36	RP-070362	0010	1	Applicability of IMS TC 13.4	F	6.1.0	6.2.0	R5-071060
RP-36 RP-36	RP-070362 RP-070362	0011 0013	1	Coding options for the IPv4 address in PCO IE	F	6.1.0 6.1.0	6.2.0	R5-071438 R5-071507
RP-36	RP-070362 RP-070607	0013	-	Applicability of Call Control TCs Applicability of re- and de-registration TCs for early	F	6.2.0	6.3.0	R5-0711507
RP-38	RP-070874	0017		IMS Production of 34.229-2 pointer version in Rel-6	F	6.3.0	6.4.0	R5-073279
RP-38	RP-070882	0015		pointing to Rel-7 version Applicability of new MTSI MO Call and Call Hold test	F	6.3.0	7.0.0	R5-073445
RP-38	RP-070882	0016		cases Add MTSI media capabilities	F	6.3.0	7.0.0	R5-073096
RP-39	RP-070802 RP-080113	0018		Applicability for new MTSI test cases 15.12, 15.13	F	7.0.0	7.1.0	R5-080597
RP-39	RP-080113	0019		and 15.23 Applicability for MTSI test case MO MTSI Text call	F	7.0.0	7.1.0	R5-080562
RP-39	RP-080113	0019		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,	F	7.0.0	7.1.0	R5-080083
RP-39	RP-080114	0022		Applicability for MTSI test case MT Video, add	F	7.0.0	7.1.0	R5-080590
RP-39	RP-080114	0023	1	speech remove speech Update SDP applicability tables	F	7.0.0	7.1.0	R5-080578
RP-39	RP-080114	0023	1	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		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
RP-40	RP-080376	0028		Media change capabilities	F	7.1.0	7.20	R5-081084
RP-40	RP-080376	0029		Applicability for new MTSI test case MT MTSI Speech call	F	7.1.0	7.20	R5-081085
RP-40	RP-080376	0030		Applicability for new MTSI test case MT MTSI Video call	F	7.1.0	7.20	R5-081086
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
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
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
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
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

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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	0050		Remove applicabilities for removed clause 16 test	F	8.0.0	8.1.0	R5-090628
				cases				
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	<u> </u>	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	R5-100510
RP-47	-	-		Moved to v9.0.0 with no change	<u>'</u>	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	l	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	l_	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	F	9.1.0	9.2.0	R5-104737
111 40	100000	0000		registration				104707
-	-	-	-	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	0800	-	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

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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

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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

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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

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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

## History

	Document history							
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