ETSITS 124 173 V8.6.0 (2010-01)

Technical Specification

Universal Mobile Telecommunications System (UMTS);

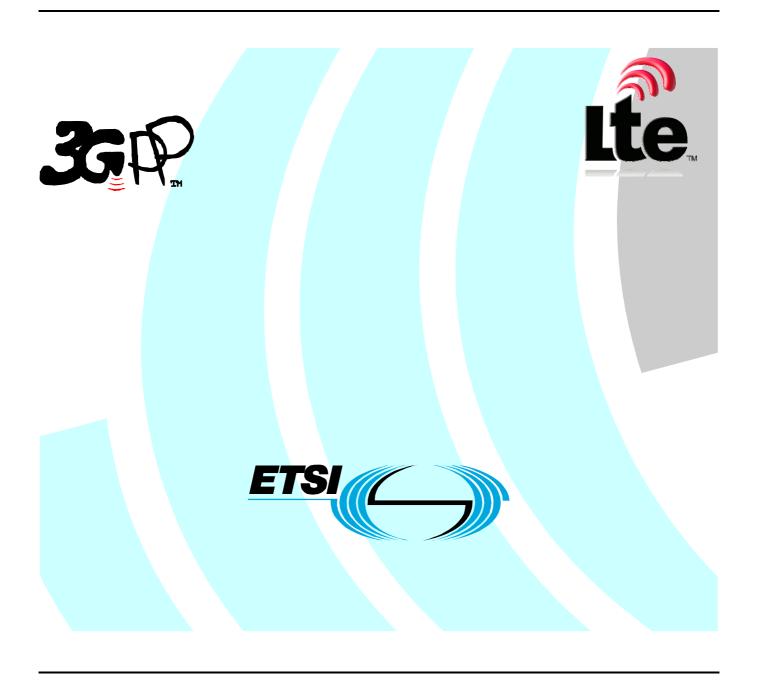
LTE;

IMS Multimedia telephony service and

supplementary services;

Stage 3

(3GPP TS 24.173 version 8.6.0 Release 8)



Reference
RTS/TSGC-0124173v860

Keywords
LTE, UMTS

ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from: http://www.etsi.org

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

http://portal.etsi.org/tb/status/status.asp

If you find errors in the present document, please send your comment to one of the following services: http://portal.etsi.org/chaircor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2010. All rights reserved.

DECTTM, **PLUGTESTS**TM, **UMTS**TM, **TIPHON**TM, the TIPHON logo and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.

3GPP[™] is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **LTE**[™] is a Trade Mark of ETSI currently being registered

for the benefit of its Members and of the 3GPP Organizational Partners. **GSM**® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://webapp.etsi.org/IPR/home.asp).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

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

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

Contents

Intelle	ectual Property Rights		2
Forew	ord		2
Forew	ord		5
1	Scope		6
2	References		6
3	Definitions, symbols ar	nd abbreviations	7
3.1	Definitions		7
3.2	Abbreviations		7
4	in the IP Multimedia (I	ta telephony communication service and associated supplementary service M) Core Network (CN) subsystem	8
4.1			
4.1A			
4.1A.1		ony participant	
4.1A.2		ony application server	
4.2		mmunication partentary services part	
4.3	Overview of supplem	entary services part	9
5	Basic Communication		9
5.1	IMS communication s	service identifier	9
5.2	Session control proce	dures	9
5.3	Interworking		10
6	Sunnlementary Service	·S	10
6.1	11	nts	
6.2		tion Presentation (OIP)	
6.3		tion Restriction (OIR)	
6.4		ation Presentation (TIP)	
6.5		ation Restriction (TIR)	
6.6		rsion (CDIV)	
6.7		(HOLD)	
6.8		ng (CB)	
6.9		cation (MWI)	
6.10			
6.11	Explicit Communicati	ion Transfer (ECT)	10
6.12	XCAP over Ut interfa	ce for Manipulating NGN Services	11
6.13	O ,	OC)	
6.14		CUG)	
6.15	• • •		
6.16)	
6.17		ing (CW)	11
6.18	1	unications to Busy Subscriber (CCBS) Completion of Communications by No	11
6.19		Tones (CAT)	
0.19	Custoffized Alerting	Tolles (CAT)	11
Anne	x A (informative):	Void	12
Anne	x B (informative):	Void	13
Anne	x C (informative):	Void	14
	x D (informative):	Void	
	,		
Anne	x E (informative):	Void	16
Anne	x F (informative):	Void	17

Annex G (informative):	Void	18
Annex H (informative):	Void	19
Annex I (informative):	Void	20
Annex J (informative):	Change history	21
History		23

Foreword

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

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

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document provides the protocol details for multimedia telephony communication service and associated supplementary services in the IP Multimedia (IM) Core Network (CN) subsystem based on the requirements from 3GPP TS 22.173 [2].

Multimedia telephony and supplementary services allow users to establish communications between them and enrich that by enabling supplementary services.

2 References

[10]

[11]

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications". 3GPP TS 22.173: "IP Multimedia Core Network Subsystem (IMS) Multimedia Telephony Service [2] and supplementary services; Stage 1". [3] 3GPP TS 24.604: "Communication Diversion (CDIV); Protocol specification using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification ". [4] 3GPP TS 24.605: "Conference (CONF) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification". 3GPP TS 24.606: "Message Waiting Indication (MWI) using IP Multimedia (IM) Core Network [5] (CN) subsystem; Protocol specification". [6] 3GPP TS 24.607: "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification". 3GPP TS 24.608: "Terminating Identification Presentation (TIP) and Terminating Identification [7] Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification". [8] 3GPP TS 24.610: "Communication HOLD (HOLD) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification". 3GPP TS 24.611: "Anonymous Communication Rejection (ACR) and Communication Barring [9] (CB) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification".

Network (CN) subsystem; Protocol specification".

over the Ut interface for Manipulating Simulation Services".

3GPP TS 24.629: "Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core

3GPP TS 24.623: "Extensible Markup Language (XML) Configuration Access Protocol (XCAP)

[13]	3GPP TS 24.229: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
[14]	3GPP TS 24.247: "Messaging using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3".
[15]	Void
[16]	IETF RFC 3841 (August 2004): "Caller Preferences for the Session Initiation Protocol (SIP)".
[17]	3GPP TS 24.647: "Advice Of Charge (AOC) using IP Multimedia (IM)Core Network (CN) subsystem; Protocol Specification".
[18]	3GPP TS 24.654: "Closed User Group (CUG) using IP Multimedia (IM) Core Network (CN) subsystem, Protocol Specification".
[19]	3GPP TS 24.239: "IP Multimedia Subsystem (IMS) Flexible alerting supplementary service".
[20]	3GPP TS 24.238: "Session Initiation Protocol (SIP) based user configuration; stage 3".
[21]	3GPP2 C.S0055-A: "Packet Switched Video Telephony Services".
[22]	ETSI TS 181 005: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Service and Capability Requirements".
[23]	3GPP TS 24.615: "Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem, Protocol Specification".
[24]	3GPP TS 24.642: "Completion of Communications to Busy Subscriber (CCBS) Completion of Communications by No Reply (CCNR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification".
[25]	3GPP TS 24.182: "IP Multimedia Subsystem (IMS) Customized Alerting Tones (CAT); Protocol specification".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 21.905 [1] apply.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CS Circuit Switched CN Core Network

ICSI IMS Communication Service Identifier

IP Internet Protocol
IM IP Multimedia

MMTEL Multimedia Telephony

4 Overview of multimedia telephony communication service and associated supplementary services in the IP Multimedia (IM) Core Network (CN) subsystem

4.1 General

In accordance with the service definition and requirements in 3GPP TS 22.173 [2], the IMS multimedia telephony communication service specified herein allows multimedia conversational communication between two or more end points. An end point is typically located in a UE, but can also be located in a network entity.

As for traditional circuit-switched telephony, the protocols for the IMS multimedia Telephony communication service allow a user to connect to any other user, regardless of operator and access technology.

The IMS multimedia Telephony communication service consists of two principal parts: a basic communication part, and an optional supplementary services part.

4.1A Roles

4.1A.1 Multimedia telephony participant

A UE shall implement the role of a multimedia telephony participant.

4.1A.2 Multimedia telephony application server

An application server shall implement the role of a multimedia telephony application server. Various application server usages are called out by references to the various supplementary services, see subclause 4.3. It is an implementation decision on how to allocate the functionality to one or more application servers.

4.2 Overview of basic communication part

The basic communication part of an IMS multimedia telephony communication service session is realised by a single SIP session. It utilises media capabilities and flexibility provided by the SIP protocol and the 3GPP IMS specifications. In accordance with the service definition in 3GPP TS 22.173 [2], the media capabilities includes RTP-based transfer of voice, real-time video and text, as well as TCP/MSRP-based transfer of text, arbitrary files and sharing of media files with predefined formats. To ensure interoperability, media codecs and formats are fully specified for RTP-based and MSRP-based transfer in:

- 3GPP TS 26.114 [12] for 3GPP systems;
- 3GPP2 C.S0055-A [21] for 3GPP2 systems; and
- ETSI TS 181 005 [22] for fixed-broadband accesses.

NOTE: ETSI TS 181 005 [22] provides general rules for codecs and formats usage within networks using fixed-broadband accesses. These rules are not specific to IMS multimedia telephony communication services.

The service is highly dynamic in terms of media component usage: the protocols allow a communication session to start with one or more media components, and components can then be added and/or removed during the communication session. The protocols allow both one-way and two ways transfer between end points. Full duplex speech, and speech combined with other media components, are typical media cases but the protocols do not mandate the use of speech in all sessions.

4.3 Overview of supplementary services part

The supplementary services part of the IMS multimedia telephony communication service consists of a number of specified supplementary services. These are fully standardized to ensure interoperability between multiple end points, and between end points and network control entities. The behaviour of supplementary services is similar to supplementary services specified for CS speech (TS 11). Supplementary services uses SIP as enabling protocol. Configuration of supplementary services by the user should:

- take place over the Ut interface using XCAP as enabling protocol as described in 3GPP TS 24.623 [11]; or
- use SIP based user configuration as described in 3GPP TS 24.238 [20];

NOTE: Other possibilities for user configuration, such as web-based provisioning or pre-provisioning by the operator are outside the scope of the present document, but are not precluded.

5 Basic Communication

5.1 IMS communication service identifier

URN used to define the ICSI for the IMS Multimedia Telephony Communication Service: urn:urn-7:3gpp-service.ims.icsi.mmtel. The URN is registered at http://www.3gpp.com/Uniform-Resource-Name-URN-list.html.

Summary of the URN: This URN indicates that the device supports the IMS Multimedia Telephony Communication Service.

The URN is intended primarily for use in the following applications, protocols, services, or negotiation mechanisms:

This URN is most useful in a communications application, for describing the capabilities of a device, such as a phone or PDA.

Examples of typical use: Indicating that a mobile phone can support the IMS Multimedia Telephony Communication Service.

Related standards or documents:

3GPP TS 24.173: "IMS Multimedia Telephony Communication Service and Supplementary Services, stage 3"

5.2 Session control procedures

The IMS multimedia telephony communication service can support different types of media, including media types listed in 3GPP TS 22.173 [2]. The session control procedures for the different media types shall be in accordance with 3GPP TS 24.229 [13] and 3GPP TS 24.247 [14], with the following additions:

- a) Multimedia telephony is an IMS communication service and the P-Preferred-Service and P-Asserted-Service headers shall be treated as described in 3GPP TS 24.229 [13]. The coding of the ICSI value in the P-Preferred-Service and P-Asserted-Service headers shall be according to subclause 5.1.
- b) The multimedia telephony participant shall include the g.3gpp. icsi-ref feature tag equal to the ICSI value defined in subclause 5.1 in the Contact header field in initial requests and responses as described in 3GPP TS 24.229 [13].
- c) The multimedia telephony participant shall include an Accept-Contact header field containing the g.3gpp. icsiref feature tag containing the ICSI value defined in subclause 5.1 in initial requests. If the user requests capabilities other than multimedia telephony, the Accept-Contact header field may contain other feature parameters and feature parameter values, and other Accept-Contact header fields may be added to express user preferences as per IETF RFC 3841 [16].

NOTE: How the user indicates other feature parameters and feature parameter values is outside of the scope of this document.

5.3 Interworking

The multimedia telephony participant could receive initial requests that do not contain the ICSI value defined in subclause 5.1 in the Accept-Contact header but still invoke the IMS multimedia telephony communication service application.

6 Supplementary Services

6.1 High level requirements

6.2 Originating Identification Presentation (OIP)

The OIP service is specified in 3GPP TS 24.607 [6].

6.3 Originating Identification Restriction (OIR)

The OIR service is specified in 3GPP TS 24.607 [6].

6.4 Terminating Identification Presentation (TIP)

The TIP service is specified in 3GPP TS 24.608 [7].

6.5 Terminating Identification Restriction (TIR)

The TIR service is specified in 3GPP TS 24.608 [7].

6.6 Communication Diversion (CDIV)

The CDIV service is specified in 3GPP TS 24.604 [3].

6.7 Communication Hold (HOLD)

The HOLD service is specified in 3GPP TS 24.610 [8].

6.8 Communication Barring (CB)

The CB service is specified in 3GPP TS 24.611 [9].

6.9 Message Waiting Indication (MWI)

The MWI service is specified in 3GPP TS 24.606 [5].

6.10 Conference (CONF)

The CONF service is specified in 3GPP TS 24.605 [4].

6.11 Explicit Communication Transfer (ECT)

The ECT service is specified in 3GPP TS 24.629 [10].

6.12 XCAP over Ut interface for Manipulating NGN Services

The XCAP is specified in 3GPP TS 24.623 [11].

6.13 Advice Of Charge (AOC)

The AOC service is specified in 3GPP TS 24.647 [17].

6.14 Closed User Groups (CUG)

The CUG service is specified in 3GPP TS 24.654 [18].

6.15 Three-Party (3PTY)

The 3PTY service is specified in 3GPP TS 24.605 [4].

NOTE: 3PTY can be seen as a special case of CONF and most of service interactions for CONF apply also to 3PTY.

6.16 Flexible Alerting (FA)

The FA service is specified in 3GPP TS 24.239 [19].

NOTE: 3GPP TS 22.173 also contains a Reverse charging service, but no stage 3 work has been done for that in this release.

6.17 Communication Waiting (CW)

The CW service is specified in 3GPP TS 24.615 [23].

6.18 Completion of Communications to Busy Subscriber (CCBS) Completion of Communications by No Reply (CCNR)

The Completion of Communications to Busy Subscriber (CCBS) Completion of Communications by No Reply (CCNR) service is specified in 3GPP TS 24.642 [24].

6.19 Customized Alerting Tones (CAT)

The CAT service is specified in 3GPP TS 24.182 [25].

Annex A (informative): Void

Annex B (informative): Void.

Annex C (informative): Void

Annex D (informative): Void

Annex E (informative): Void

Annex F (informative): Void

Annex G (informative): Void

Annex H (informative): Void

Annex I (informative): Void

Annex J (informative): Change history

					Change history		
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2006-05	CT1#42				First draft	0.0.0	0.1.0
2006-07	CT1#42-				The following Tdocs included are in this version of the TS:	0.1.0	0.2.0
	bis				C1-061293, C1-061301, C1-061342, C1-061343, C1- 061344, C1-061345, C1-061346, C1-061347, C1-061348,		
					C1-061361		
					Some corrections to the formatting as well as editorial		
					alignments also done by the rapporteur.		
2006-09	CT1#43				The following Tdocs have been included in this version of	0.2.0	0.3.0
					the TS:		
					C1-061464, C1-061721, C1-061722, C1-0611723		
					Some formatting cleanups performed in chapters: Annex E		
					(4.5.2.6.2 and 4.7.1.1) and Annex H (4.5.2.4.1.2.3,		
2006-11	CT1#44				4.5.2.4.2.1, 4.5.2.7.2 and 4.5.2.7.3). The following Tdoc has been included in this version of the	0.3.0	0.4.0
2000-11	011#44				TS:	0.3.0	0.4.0
					C1-062452		
2006-11	3GPP/TI				The following Tdoc has been included in this version of the	0.4.0	0.5.0
	SPAN				TS:		
	Supplem				SS-060052		
	entary						
	Serv				V		
2006-11	OT4 #45				V 1.0.0 created by MCC	0.5.0	1.0.0
2007-02	CT1#45				The text in the annexes A, B, C, D, E, F, G, H and I split out as separate word-files with ETSI-logo and headers.	1.0.0	1.1.0
					as separate word-lifes with E151-logo and neaders.		
					The following contributions, including TISPAN#12 plenary		
					approved CRs, have been incorporated:		
					C1-070032		
					C1-070163 (12TD062 TISPAN#12 plenary CR pack)		
					C1-070164 (12TD066r1 TISPAN#12 plenary CR pack)		
					C1-070165 (12TD060 TISPAN#12 plenary CR pack)		
					C1-070166 (12TD068 TISPAN#12 plenary CR pack) C1-070167 (12TD061 TISPAN#12 plenary CR pack)		
					C1-070436		
					C1-070437		
					C1-070555		
					C1-070557		
					C1-070631		
					C4 064464 (CT4#42) abanga ta Annay F/4 6 4 incorporated		
					C1-061464 (CT1#43) change to Annex E/4.6.4 incorporated		
2007-02					V 2.0.0 created by MCC	1.1.0	2.0.0
2007-02	CT#35				The following Tdoc approved in CT#35:	2.0.0	2.1.0
					CP-070230		
2007-03	CT#35				Version 7.0.0 was created by MCC	2.1.0	7.0.0
2007-06	CT-36	CP-070430	0006	1	24.173: Alignment with TISPAN#13 approved CDIV CRs	7.0.0	7.1.0
2007-06	CT-36	CP-070430	0013	-	24.173: Alignment with TISPAN#13 approved XCAP CRs	7.0.0	7.1.0
2007-06	CT-36	CP-070430	0011	-	24.173: Alignment with TISPAN#13 approved OIP/OIR CRs	7.0.0	7.1.0
2007-06	CT-36	CP-070430	0010	<u> -</u>	24.173: Alignment with TISPAN#13 approved MWI CRs	7.0.0	7.1.0
2007-06	CT-36	CP-070430	0009	Ι-	24.173: Alignment with TISPAN#13 approved HOLD CRs	7.0.0	7.1.0
2007-06 2007-06	CT-36 CT-36	CP-070430 CP-070430	0008	-	24.173: Alignment with TISPAN#13 approved ECT CRs 24.173: Alignment with TISPAN#13 approved CONF CRs	7.0.0	7.1.0 7.1.0
2007-06	CT-36	CP-070430 CP-070430	0007	[24.173: Alignment with TISPAN#13 approved CONF CRS	7.0.0	7.1.0
2007-06	CT-36	CP-070430	0003	 -	Correction of file names for the SS-TSs	7.0.0	7.1.0
2007-06	CT-36	CP-070490	0003	1	Alignment with TISPAN#13 approved TIP/TIR CRs	7.0.0	7.1.0
2007-09	CT-37	CP-070668	0012	3	Service identification alignment	7.1.0	7.2.0
2007-09	CT-37	CP-070669	0025	2	24.173: Alignment with TISPAN#14 approved CDIV CRs	7.1.0	7.2.0
2007-09	CT-37	CP-070669	0026	2	24.173: Alignment with TISPAN#14 approved ECT CRs	7.1.0	7.2.0
2007-09	CT-37				24.173: Replacing CB text with text from the published ETSI	7.1.0	7.2.0
		CP-070669	0027	2	specification		
2007-09	CT-37				24.173: Replacing CONF text with text from the published	7.1.0	7.2.0
	<u> </u>	CP-070669	0028	2	ETSI specification		
2007-09	CT-37	00 070000	0000		24.173: Replacing HOLD text with text from the published	7.1.0	7.2.0
0007.00	OT 67	CP-070669	0029	2	ETSI specification	740	7.0.0
2007-09	CT-37	CP-070669	0030	2	24.173: Replacing MWI text with text from the published	7.1.0	7.2.0

2007-09 CT-37 CP-070669 0031 CP-070669 0032 CP-070669 0032 CP-070669 0032 CP-070669 0032 CP-070669 0032 CP-070669 0033 CP-070797 0036 CP-080127 0045 CP-080127 0045 CP-080127 0045 CP-080127 0045 CP-080127 0045 CP-080139 0047 1 CP-080606 CP-080036 0046 CP-080346 0052 CP-080346 0052 CP-080346 0052 CP-080346 0052 CP-080346 0052 CP-080346 0052 CP-080518 0054 1 CP-080518 0055 CP-080518 0055 CP-080518 0056 CP-080518 0056 CP-080518 0056 CP-080518 0056 CP-080518 0056 CP-080518 0056 CP-080698 0060 CP-080698 006					1	ETSI specification		
CP-070669	2007-09	CT-37					710	720
2007-09 CT-37 CP-070669 0032 CP-070669 0032 CP-070669 0033 CP-070797 0036 CP-070797 0036 CP-070796 0037 Use of the ICSI in the Contact Header for mmtel 7.2.0 7.3.0 7.4.0 CP-080127 0045 Septimization of ICSI for Multimedia Telephony in Accept- (7.2.0 7.3.0 7.4.0 CP-080127 0045 Septimization of ICSI for Multimedia Telephony in Accept- (7.2.0 7.3.0 7.4.0 CP-080127 0045 Septimization of ICSI for Multimedia Telephony in Accept- (7.2.0 7.3.0 7.4.0 CP-080127 0045 Septimization of ICSI for Multimedia Telephony in Accept- (7.2.0 7.3.0 7.4.0 CP-080127 0045 Septimization of ICSI for Multimedia Telephony in Accept- (7.2.0 7.3.0 7.4.0 CP-080127 0045 Septimization of ICSI for Multimedia Telephony in Accept- (7.2.0 7.3.0 7.4.0 CP-080139 0047 Septimization of ICSI for Multimedia Telephony in Accept- (7.2.0 7.3.0 7.4.0 CP-080606 0046 Septimization Service Septimization Service Septimization Service Septimization of ICSI and ICSI for Multimedia Telephony apprincipal Multimedia Telephony Service Identifier Septimization Service Septimization Ser	2007 00	0101	CP-070669	0031	2		7.1.0	7.2.0
CP-070669	2007-09	CT-37	0.0.000				7.1.0	7.2.0
2007-09 CT-37 CP-070669 0033 2 24.173. Replacing XCAP text with text from the published 7.1.0 7.2.0			CP-070669	0032	2			
MS Multimedia Telephony Communication Service ICSI in 7.1.0 7.2.0 7.2.0 7.3.0 7.2.0 7.3.	2007-09	CT-37					7.1.0	7.2.0
CP-070699			CP-070669	0033	2			
Specification of ICSI for Multimedia Telephony in Accept. 7.2.0 7.3.0	2007-09	CT-37				IMS Multimedia Telephony Communication Service ICSI in	7.1.0	7.2.0
CP-070797 0036 2 Contact CP-070797 CP-070796 0037 Use of the ICSI in the Contact Header for mmtel 7.2.0 7.3.0 7.4.0 CP-080127 0045 3 Interworking with terminals not supporting Multimedia 7.3.0 7.4.0 Telephony Service Identifiler Telephony Service Identifiler Telephony Service Identifiler Telephony Service Septification 7.3.0 7.4.0 Telephony Service Identifiler Telephony Service Septification T			CP-070699	0023	7			
2007-12 CT-38 CP-070796 0037 Use of the ICSI in the Contact Header for mmtel 7.2.0 7.3.0 7.4.0 7.4.0 7.3.0 7.4.0	2007-12	CT-38					7.2.0	7.3.0
Interworking with terminals not supporting Multimedia 7.3.0 7.4.0					2			
CP-080127			CP-070796	0037				
CP-080127 O045 3 Addition of 3GPP supplementary service specification 7.3.0 7.4.0	2008-03	CT-39					7.3.0	7.4.0
Addition of 3GPP supplementary service specification 7.3.0 7.4.0			00.000407	00.45		Telephony Service Identifier		
CP-080205 0046 1	0000 00	OT 00	CP-080127	0045	3	A LEG COORD Lorente	700	7.4.0
Addition of 3GPP supplementary service specification 7.4.0 8.0.0	2008-03	C1-39	CD 000005	0046	4	Addition of 3GPP supplementary service specification	7.3.0	7.4.0
CP-080139	2000 02	CT 20	CF-060205	0046	1	Addition of 2CDD aupplementary consists appointed	7.4.0	9 0 0
CP-080345	2006-03	C1-39	CP-080130	0047	1	Addition of SGFF supplementary service specification	7.4.0	0.0.0
CP-080345 0049 1 Reference replacement table removal 8.0.0 8.1.0	2008-06	CT-40	01-000100	0047	+	Correction of feature tag format		+
Reference replacement table removal 8.0.0 8.1.0	2000 00	01 40	CP-080345	0049	1	Concolion of realture tag format	8.0.0	8.1.0
CP-080346	2008-06	CT-40	0. 0000.0	00.0	1	Reference replacement table removal	0.0.0	00
Reference naming correction Reference naming correction of terms "multimedia telephony participant" and Reference naming correction Reference naming		0	CP-080346	0052	-	Total of the state	8.0.0	8.1.0
CP-080360 O050 1	2008-06	CT-40				Reference naming correction		
Introduction of terms "multimedia telephony participant" and "multimedia telephony application server" 8.1.0 8.2.0			CP-080360	0050	1	Š	8.0.0	8.1.0
CP-080518	2008-09	CT-41				Introduction of terms "multimedia telephony participant" and		
Allow SIP based user configuration mechanism for configuring supplementary services 8.1.0 8.2.0						"multimedia telephony application server"		
CP-080518			CP-080518	0054	1		8.1.0	8.2.0
CP-080518	2008-09	CT-41						
CP-080536			OD 000540	0055		configuring supplementary services	0.4.0	0.00
CP-080536 0056 2 Make common IMS specification codec-neutral 8.2.0 8.3.0	2000.00	OT 44	CP-080518	0055		A delition of many available actions and income	8.1.0	8.2.0
CT-42 CP-080864 0058 3 Make common IMS specification codec-neutral 8.2.0 8.3.0	2006-09	C1-41	CP-080536	0056	2	Addition of new supplementary services	810	820
CP-080864 0058 3 Correction of ICSI and IARI feature tag name 8.2.0 8.3.0	2008-12	CT-42	C1 -000330	0030		Make common IMS enecification codec-neutral	0.1.0	0.2.0
2008-12 CT-42 CP-080869 0060 Correction of ICSI and IARI feature tag name 8.2.0 8.3.0 2008-12 CT-42 CP-080864 0063 2 Interaction between SIP and Ut based service configuration 8.2.0 8.3.0 2008-12 CT-42 CP-080852 0064 1 Codec formats for fixed-broadband accesses 8.2.0 8.3.0 2008-12 CT-42 CP-080873 0065 Adding CC and CW 8.2.0 8.3.0 2008-12 CT-42 Editorial cleanup by MCC 8.2.0 8.3.0 2009-03 CT-43 CP-090121 0067 Correction of URN-value for Service Identifiers 8.3.0 8.4.0 2009-06 CT-44 CP-090416 0068 Correction of subclause heading 8.4.0 8.5.0 2009-12 CT-46 CP-090403 0070 Addition of Customized alterting tones (CAT) service 8.5.0 8.5.0 2009-12 CT-46 Removal of editor"s note on Reverse Charging 8.5.0 8.6.0	2000-12	01-42	CP-080864	0058	3	Iwake common two specification codec-neutral	820	830
CP-080869 0060 S.2.0 S.3.0	2008-12	CT-42	01 000001	0000		Correction of ICSI and IARI feature tag name	0.2.0	0.0.0
CT-42		0	CP-080869	0060		oonoonon or root and man roataro tag name	8.2.0	8.3.0
CP-080864 0063 2 Codec formats for fixed-broadband accesses 8.2.0 8.3.0	2008-12	CT-42				Interaction between SIP and Ut based service configuration		
CP-080852 0064 1 8.2.0 8.3.0			CP-080864	0063	2		8.2.0	8.3.0
Adding CC and CW 8.2.0 8.3.0	2008-12	CT-42				Codec formats for fixed-broadband accesses		
CP-080873 0065 Editorial cleanup by MCC 8.2.0 8.3.0			CP-080852	0064	1		8.2.0	8.3.0
2008-12 CT-42 Editorial cleanup by MCC 8.2.0 8.3.0 2009-03 CT-43 CP-090121 0067 Correction of URN-value for Service Identifiers 8.3.0 8.4.0 2009-06 CT-44 CP-090416 0068 Correction of subclause heading 8.4.0 8.5.0 2009-06 CT-44 CP-090403 0070 Correction of 3GPP URN link 8.4.0 8.5.0 2009-12 CT-46 CP-090904 0073 1 Addition of Customized alterting tones (CAT) service 8.5.0 8.6.0 2009-12 CT-46 Removal of editor"s note on Reverse Charging 8.5.0 8.6.0	2008-12	CT-42				Adding CC and CW		
Section Service Serv			CP-080873	0065			8.2.0	8.3.0
2009-03 CT-43 CP-090121 Correction of URN-value for Service Identifiers 8.3.0 8.4.0 2009-06 CT-44 CP-090416 0068 Correction of subclause heading 8.4.0 8.5.0 2009-06 CT-44 CP-090403 0070 Correction of 3GPP URN link 8.4.0 8.5.0 2009-12 CT-46 CP-090904 0073 1 Addition of Customized alterting tones (CAT) service 8.5.0 8.6.0 2009-12 CT-46 Removal of editor"s note on Reverse Charging Removal of editor"s note on Reverse Charging Removal of editor service	2008-12	CT-42				Editorial cleanup by MCC	0.00	0.00
CP-090121 0067 8.3.0 8.4.0	0000 00	OT 40				One of an aftiphism for One for Islantifican	8.2.0	8.3.0
2009-06 CT-44 CP-090416 0068 Correction of subclause heading 8.4.0 8.5.0 2009-06 CT-44 CP-090403 0070 Correction of 3GPP URN link 8.4.0 8.5.0 2009-12 CT-46 CP-090904 0073 1 Addition of Customized alterting tones (CAT) service 8.5.0 8.6.0 2009-12 CT-46 Removal of editor"s note on Reverse Charging Removal of editor sould be considered as a constant sould be constant sould be constant sould be constant sould be considered as a constant sould be con	2009-03	C1-43	CB 000131	0067		Correction of URN-value for Service Identifiers	0 2 0	0.4.0
CP-090416 0068 8.4.0 8.5.0	2000 06	CT 44	CF-090121	0007		Correction of authologies heading	0.3.0	0.4.0
2009-06 CT-44 CP-090403 O070 Correction of 3GPP URN link 8.4.0 8.5.0 2009-12 CT-46 CP-090904 0073 1 Addition of Customized alterting tones (CAT) service 8.5.0 8.6.0 2009-12 CT-46 Removal of editor"s note on Reverse Charging Removal of editor sould be discovered as a contraction of 3GPP URN link 8.5.0 8.6.0	2009-00	01-44	CP-090416	0068	1	Correction of Subclause neading	840	850
CP-090403 0070 8.4.0 8.5.0	2009-06	CT-44	01 030410	0000	 	Correction of 3GPP LIRN link	0.7.0	5.5.0
2009-12 CT-46 CP-090904 0073 Addition of Customized alterting tones (CAT) service 8.5.0 8.6.0 2009-12 CT-46 Removal of editor"s note on Reverse Charging Removal of editor and control o	2003-00	01 44	CP-090403	0070	1	CONSCION OF SOLIT ONLY WITH	8.4.0	8.5.0
CP-090904 0073 1 8.5.0 8.6.0 Removal of editor"s note on Reverse Charging	2009-12	CT-46	2. 230.00		1	Addition of Customized alterting tones (CAT) service		1
2009-12 CT-46 Removal of editor"s note on Reverse Charging			CP-090904	0073	1		8.5.0	8.6.0
	2009-12	CT-46				Removal of editor"s note on Reverse Charging		
			CP-090920	0075			8.5.0	8.6.0

History

Document history				
V8.1.0	October 2008	Publication		
V8.2.0	October 2008	Publication		
V8.3.0	January 2009	Publication		
V8.4.0	March 2009	Publication		
V8.5.0	June 2009	Publication		
V8.6.0	January 2010	Publication		