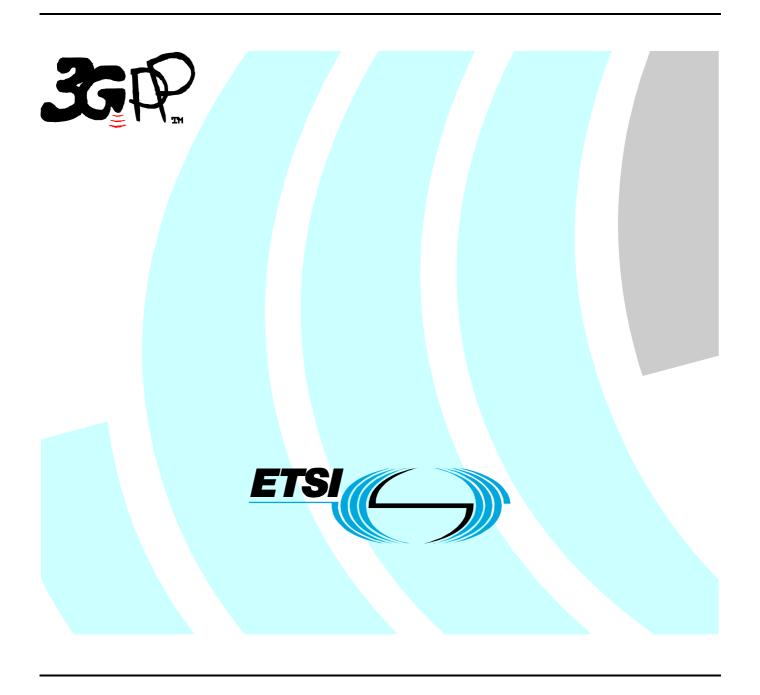
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Technical Specification

Universal Mobile Telecommunications System (UMTS);
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Stage 3
(3GPP TS 24.173 version 7.5.0 Release 7)



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Foreword

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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 | | | | | |
|---------------|---|---|----|--|--|--|--|--|
| Forev | vord | | 2 | | | | | |
| Forev | vord | | 4 | | | | | |
| 1 | Scope | | | | | | | |
| 2 | References | | | | | | | |
| 3 | Definitions, symbols | and abbreviations | 6 | | | | | |
| 3.1 | Definitions | | 6 | | | | | |
| 3.2 | Abbreviations | | 6 | | | | | |
| 4 | | dia telephony communication service and associated supplementary service (IM) Core Network (CN) subsystem | | | | | | |
| 4.1 | | (IIV) Core Network (CIV) subsystem | | | | | | |
| 4.2 | | ommunication part | | | | | | |
| 4.3 | | mentary services part | | | | | | |
| | | | | | | | | |
| 5 | | n | | | | | | |
| 5.1 | | n service identifier | | | | | | |
| 5.2 5.3 | | redures | | | | | | |
| | _ | | | | | | | |
| 6 | | ces | | | | | | |
| 6.1 | High level requirements | | | | | | | |
| 6.2 | Originating Identification Presentation (OIP) | | | | | | | |
| 6.3 | | Originating Identification Restriction (OIR) | | | | | | |
| 6.4 | | ication Presentation (TIP) | | | | | | |
| 6.5 | | ication Restriction (TIR) | | | | | | |
| 6.6 | | version (CDIV) | | | | | | |
| 6.7 6.8 | | ld (HOLD) ring (CB) | | | | | | |
| 6.9 | | dication (MWI) | | | | | | |
| 6.10 | |) | | | | | | |
| 6.11 | | ation Transfer (ECT) | | | | | | |
| 6.12 | | face for Manipulating NGN PSTN/ISDN Simulation Services | | | | | | |
| Anne | | Void | | | | | | |
| Anne | | Void | | | | | | |
| | | | | | | | | |
| Anne | | Void | | | | | | |
| Anne | | Void | | | | | | |
| Annex E: Void | | | | | | | | |
| Annex F: Void | | | | | | | | |
| Anne | x G: | Void | 16 | | | | | |
| Anne | х Н: | Void | 17 | | | | | |
| Anne | x I: | Void | 18 | | | | | |
| Anne | x J (informative): | Change history | 19 | | | | | |
| Histo | ry | | 21 | | | | | |

Foreword

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

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Version x.y.z

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- 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 requrements 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

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*.

| Release as the present document. | | | | | | |
|----------------------------------|--|--|--|--|--|--|
| [1] | 3GPP TR 21.905: "Vocabulary for 3GPP Specifications". | | | | | |
| [2] | 3GPP TS 22.173: "IP Multimedia Core Network Subsystem (IMS) Multimedia Telephony Service and supplementary services; Stage 1". | | | | | |
| [3] | 3GPP TS 24.404: "TISPAN; PSTN/ISDN simulation services: Communication Diversion (CDIV); Protocol specification". | | | | | |
| [4] | 3GPP TS 24.405: "TISPAN; PSTN/ISDN simulation services: Conference (CONF); Protocol specification". | | | | | |
| [5] | 3GPP TS 24.406: "TISPAN; PSTN/ISDN simulation services; Message Waiting Indication (MWI): Protocol specification". | | | | | |
| [6] | 3GPP TS 24.407: "TISPAN; PSTN/ISDN simulation services; Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR); Protocol specification". | | | | | |
| [7] | 3GPP TS 24.408: "PSTN/ISDN simulation services Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR); Protocol specification". | | | | | |
| [8] | 3GPP TS 24.410: "TISPAN; NGN Signalling Control Protocol; Communication HOLD (HOLD) PSTN/ISDN simulation services; Protocol specification". | | | | | |
| [9] | 3GPP TS 24.411: "TISPAN; PSTN/ISDN simulation services: Anonymous Communication Rejection (ACR) and Communication Barring (CB); Protocol specification". | | | | | |
| [10] | 3GPP TS 24.429: "TISPAN; PSTN/ISDN simulation services: Explicit Communication Transfer (ECT); Protocol specification". | | | | | |
| [11] | 3GPP TS 24.423: "TISPAN; PSTN/ISDN simulation services; Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating NGN PSTN/ISDN Simulation Services". | | | | | |
| [12] | 3GPP TS 26.114: "IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction". | | | | | |
| [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] | ETSI ES 283 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); "IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3". |
| [16] | RFC 3841 (August 2004): "Caller Preferences for the Session Initiation Protocol (SIP)". |

Modifications to the references in the 3GPP TSs.

The references as found throughout the clause 2 of References found throughout 3GPP TSs [3], [4], [5], [6], [7], [8], [9], [10] and [11] should be replaced as shown below.

Replace references as shown in Table 1 below:

Table 1: 3GPP reference replacement

| Reference in ETSI TSs | Modified reference |
|---|--|
| 3GPP TS 24.403: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3". | |
| 3GPP TS 23.406: 'Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Subsystem (IMS); Stage 2 description'. | 3GPP TS 23.228: 'IP Multimedia Subsystem (IMS); Stage 2'. |
| 3GPP TS 29.427: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Interworking SIP-ISUP for TISPAN-IMS" | 3GPP TS 29.163: 'Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks' |

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.

4.2 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]. 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 can take place over the Ut interface and can use XCAP as enabling protocol.

5 Basic Communication

5.1 IMS communication service identifier

URN used to define the ICSI for the IMS Mutimedia Telephony Communication Service: urn:urn-xxx:3gpp-service.ims.icsi.mmtel. The URN is registered at http://www.3gpp.org/tb/Other/URN/URN.htm.

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 UE 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 UE shall include an Accept-Contact header field containing the g.3gpp. icsi_ref 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 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 UE 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 24.407 [6].

6.3 Originating Identification Restriction (OIR)

The OIR service is specified in 3GPP TS 24.407 [6].

6.4 Terminating Identification Presentation (TIP)

The TIP service is specified in 3GPP TS 24.408 [7].

6.5 Terminating Identification Restriction (TIR)

The TIR service is specified in 3GPP TS 24.408 [7].

6.6 Communication Diversion (CDIV)

The CDIV service is specified in 3GPP TS 24.404 [3].

6.7 Communication Hold (HOLD)

The HOLD service is specified in 3GPP TS 24.410 [8].

6.8 Communication Barring (CB)

The CB service is specified in 3GPP TS 24.411 [9].

6.9 Message Waiting Indication (MWI)

The MWI service is specified in 3GPP TS 24.406 [5].

6.10 Conference (CONF)

The CONF service is specified in 3GPP TS 24.405 [4].

6.11 Explicit Communication Transfer (ECT)

The ECT service is specified in 3GPP TS 24.429 [10].

6.12 XCAP over Ut interface for Manipulating NGN PSTN/ISDN Simulation Services

The XCAP is specified in 3GPP TS 24.423 [11].

Annex A: Void

Annex B: Void.

Annex C: Void

Annex D: Void

Annex E: Void

Annex F: Void

Annex G: Void

Annex H: Void

Annex I: 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, | | |
| | | | | | 4.5.2.4.2.1, 4.5.2.7.2 and 4.5.2.7.3). | | |
| 2006-11 | CT1#44 | | | | The following Tdoc has been included in this version of the | 0.3.0 | 0.4.0 |
| | | | | | TS: C1-062452 | | |
| 2006-11 | 3GPP/TI | | | | The following Tdoc has been included in this version of the | 0.4.0 | 0.5.0 |
| 2006-11 | SPAN | | | | TS: | 0.4.0 | 0.5.0 |
| | Supplem | | | | SS-060052 | | |
| | entary | | | | 35 555552 | | |
| | Serv | | | | | | |
| 2006-11 | | | | | 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 | 1.0.0 | 1.1.0 |
| | | | | | as separate word-files with ETSI-logo and headers. | | |
| | | | | | | | |
| | | | | | The following contributions, including TISPAN#12 plenary | | |
| | | | | | approved CRs, have been incorporated: | | |
| | | | | | C1-070032 C1-070163 (12TD062 TISPAN#12 plenary CR pack) | | |
| | | | | | C1-070163 (12TD002 113FAN#12 plenary CR pack) | | |
| | | | | | C1-070165 (12TD06011 1161 Att#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 | | |
| | | | | | C1-061464 (CT1#43) change to Annex E/4.6.4 incorporated | | |
| | | | | | C1-001404 (C11#45) change to Annex 2/4.0.4 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 | - | 24.173: Alignment with TISPAN#13 approved HOLD CRs | 7.0.0 | 7.1.0 |
| 2007-06 | CT-36 | CP-070430 | 8000 | - | 24.173: Alignment with TISPAN#13 approved ECT CRs | 7.0.0 | 7.1.0 |
| 2007-06 | CT-36 | CP-070430 | 0007 | - | 24.173: Alignment with TISPAN#13 approved CONF CRs | 7.0.0 | 7.1.0 |
| 2007-06 | CT-36 | CP-070430 | 0005 | | 24.173: Alignment with TISPAN#13 approved CB 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 | 0012 | 1 | Alignment with TISPAN#13 approved TIP/TIR CRs | 7.0.0 | 7.1.0 |
| 2007-09 | CT-37 | CP-070668 | 0024 | 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 | 00 070000 | 000- | | 24.173: Replacing CB text with text from the published ETSI | 7.1.0 | 7.2.0 |
| 000= 00 | OT 65 | CP-070669 | 0027 | 2 | specification | 7.0 | 7.0.0 |
| 2007-09 | CT-37 | OD 070000 | 0000 | | 24.173: Replacing CONF text with text from the published | 7.1.0 | 7.2.0 |
| 2007.00 | OT 07 | CP-070669 | 0028 | 2 | ETSI specification | 740 | 700 |
| 2007-09 | CT-37 | CD 070660 | 0000 | 2 | 24.173: Replacing HOLD text with text from the published | 7.1.0 | 7.2.0 |
| 2007.00 | OT 07 | CP-070669 | 0029 | 2 | ETSI specification | 710 | 7 2 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 |

| | | | | | ETSI specification | | |
|---------|-------|-----------|------|---|---|-------|-------|
| 2007-09 | CT-37 | | | | 24.173: Replacing OIP-OIR text with text from the published | 7.1.0 | 7.2.0 |
| | | CP-070669 | 0031 | 2 | ETSI specification | | |
| 2007-09 | CT-37 | | | | 24.173: Replacing TIP-TIR text with text from the published | 7.1.0 | 7.2.0 |
| | | CP-070669 | 0032 | 2 | ETSI specification | | |
| 2007-09 | CT-37 | | | | 24.173: Replacing XCAP text with text from the published | 7.1.0 | 7.2.0 |
| | | CP-070669 | 0033 | 2 | ETSI specification | | |
| 2007-09 | CT-37 | | | | IMS Multimedia Telephony Communication Service ICSI in | 7.1.0 | 7.2.0 |
| | | CP-070699 | 0023 | 7 | Accept-Contact | | |
| 2007-12 | CT-38 | | | | Specification of ICSI for Multimedia Telephony in Accept- | 7.2.0 | 7.3.0 |
| | | CP-070797 | 0036 | 2 | Contact | | |
| 2007-12 | CT-38 | CP-070796 | 0037 | | Use of the ICSI in the Contact Header for mmtel | 7.2.0 | 7.3.0 |
| 2008-03 | CT-39 | | | | Interworking with terminals not supporting Multimedia | 7.3.0 | 7.4.0 |
| | | | | | Telephony Service Identifier | | |
| | | CP-080127 | 0045 | 3 | | | |
| 2008-03 | CT-39 | | | | Addition of 3GPP supplementary service specification | 7.3.0 | 7.4.0 |
| | | CP-080205 | 0046 | 1 | | | |
| 2008-06 | CT-40 | | | | Correction of feature tag format | | |
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| | | CP-080346 | 0051 | - | | 7.4.0 | 7.5.0 |

History

| Document history | | | | | |
|------------------|--------------|-------------|--|--|--|
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| V7.2.0 | October 2007 | Publication | | | |
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