

ETSI TS 121 202 V17.1.0 (2026-02)



TECHNICAL SPECIFICATION

**Digital cellular telecommunications system (Phase 2+) (GSM);
Universal Mobile Telecommunications System (UMTS);
LTE;
Technical Specifications and Technical Reports relating to the
Common IP Multimedia Subsystem (IMS)
(3GPP TS 21.202 version 17.1.0 Release 17)**



Reference

RTS/TSGS-0021202vh10

Keywords

GSM,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 - APE 7112B
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° w061004871

Important notice

The present document can be downloaded from the
[ETSI Search & Browse Standards](#) application.

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format on [ETSI deliver](#) repository.

Users should be aware that the present document may be revised or have its status changed, this information is available in the [Milestones listing](#).

If you find errors in the present document, please send your comments to the relevant service listed under [Committee Support Staff](#).

If you find a security vulnerability in the present document, please report it through our [Coordinated Vulnerability Disclosure \(CVD\)](#) program.

Notice of disclaimer & limitation of liability

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.

No recommendation as to products and services or vendors is made or should be implied.

No representation or warranty is made that this deliverable is technically accurate or sufficient or conforms to any law and/or governmental rule and/or regulation and further, no representation or warranty is made of merchantability or fitness for any particular purpose or against infringement of intellectual property rights.

In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2026.
All rights reserved.

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The declarations pertaining to these essential IPRs, if any, are 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 IPR online database](#).

Pursuant to the ETSI Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, 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.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP™**, **LTE™** and **5G™** logo are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **oneM2M™** logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners. **GSM®** and the GSM logo are trademarks registered and owned by the GSM Association.

Legal Notice

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. These shall be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between 3GPP and ETSI identities can be found at [3GPP to ETSI numbering cross-referencing](#).

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Contents

Intellectual Property Rights	2
Legal Notice	2
Modal verbs terminology.....	2
Foreword.....	4
1 Scope	5
2 References	5
3 Definitions, symbols and abbreviations	5
3.1 Definitions	5
3.2 Symbols.....	5
3.3 Abbreviations	5
4 General	5
5 Specifications and Reports	6
Annex A (informative): void	11
Annex B (informative): void	11
Annex C (informative): Change history	12
History	13

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 identifies the 3GPP Technical Specifications and Technical Reports specifically relating to the Common IP Multimedia Subsystem (IMS) maintained by 3GPP. Standards organizations adopting the Common IP Multimedia Subsystem (IMS) might not need to use all listed specifications.

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*.

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

[2] 3GPP TR 21.900: "Technical specification group working methods".

3 Definitions, symbols and abbreviations

3.1 Definitions

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

3.2 Symbols

(None)

3.3 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].

NGN	Next Generation Network
R1	Release 1
R2	Release 2
TISPAN	Telecommunications and Internet converged Services and Protocols for Advanced Networks

4 General

The numbering scheme for specifications is described in 3GPP TR 21.900 [2].

5 Specifications and Reports

NOTE 1: The "for publication?" column of the table below indicates whether or not the documents are intended for adoption by the partner Standards Development Organizations as their own publications. Those marked "no" are internal working documents of the 3GPP TSGs.

NOTE 2: Some of the algorithm specifications in the 35.-series are available only under licence.

NOTE 3: "Type" indicates Technical Specification (TS) or Technical Report (TR).

NOTE 4: For definition of "freezing" of specifications (last two columns), see 3GPP TR 21.900 [2].

The table below contains all Common IMS specs pertaining to Release 17.

Type	Number	Title	Group	For publication?
TS	21.111	USIM and IC card requirements	C6	Yes
TR	21.905	Vocabulary for 3GPP Specifications	SP	Yes
TS	22.030	Man-Machine Interface (MMI) of the User Equipment (UE)	S1	Yes
TS	22.041	Operator Determined Barring (ODB)	S1	Yes
TS	22.071	Location Services (LCS); Service description; Stage 1	S1	Yes
TS	22.101	Service aspects; Service principles	S1	Yes
TS	22.105	Services and service capabilities	S1	Yes
TS	22.115	Service aspects; Charging and billing	S1	Yes
TS	22.140	Multimedia Messaging Service (MMS); Stage 1	S1	Yes
TS	22.141	Presence service; Stage 1	S1	Yes
TS	22.153	Multimedia priority service	S1	Yes
TS	22.173	IP Multimedia Core Network Subsystem (IMS) Multimedia Telephony Service and supplementary services; Stage 1	S1	Yes
TS	22.174	Push Service; Service aspects; Stage 1	S1	Yes
TS	22.182	Customized Alerting Tones (CAT) requirements; Stage 1	S1	Yes
TS	22.183	Customized Ringing Signal (CRS) requirements; Stage 1	S1	Yes
TS	22.228	Service requirements for the Internet Protocol (IP) multimedia core network subsystem (IMS); Stage 1	S1	Yes
TS	22.250	IP Multimedia Subsystem (IMS) Group Management; Stage 1	S1	Yes
TS	22.279	Combined Circuit Switched (CS) and IP Multimedia Subsystem (IMS) sessions; Stage 1	S1	Yes
TS	22.340	IP Multimedia Subsystem (IMS) messaging; Stage 1	S1	Yes
TR	22.979	Feasibility study on combined Circuit Switched (CS) calls and IP Multimedia Subsystem (IMS) sessions	S1	Yes
TS	23.141	Presence service; Architecture and functional description	S2	Yes
TS	23.167	IP Multimedia Subsystem (IMS) emergency sessions	S2	Yes
TS	23.204	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	S2	Yes
TS	23.218	IP Multimedia (IM) session handling; IM call model; Stage 2	C1	Yes
TS	23.228	IP Multimedia Subsystem (IMS); Stage 2	S2	Yes
TS	23.333	Multimedia Resource Function Controller (MRFC) - Multimedia Resource Function Processor (MRFP) Mp interface: Procedures descriptions	C4	Yes
TS	23.334	IP Multimedia Subsystem (IMS) Application Level Gateway (IMS-ALG) - IMS Access Gateway (IMS-AGW) interface: Procedures descriptions	C4	Yes
TR	23.794	Study on enhanced IP Multimedia Subsystem (IMS) to 5GC integration	S2	Yes
TS	24.141	Presence service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3	C1	Yes
TS	24.147	Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3	C1	Yes
TS	24.173	IMS Multimedia telephony communication service and supplementary services; Stage 3	C1	Yes
TS	24.174	Support of multi-device and multi-identity in the IP Multimedia Subsystem (IMS); Stage 3	C1	Yes
TS	24.175	Management Object (MO) for multi-device and multi-identity in the IP Multimedia Subsystem (IMS)	C1	Yes
TS	24.182	IP Multimedia Subsystem (IMS) Customized Alerting Tones (CAT); Protocol specification	C1	Yes
TS	24.229	IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3	C1	Yes
TS	24.238	Session Initiation Protocol (SIP) based user configuration; Stage 3	C1	Yes
TS	24.239	Flexible Alerting (FA) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.247	Messaging service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3	C1	Yes

Type	Number	Title	Group	For publication?
TS	24.315	IP Multimedia Subsystem (IMS) Operator Determined Barring (ODB); Stage 3: protocol specification	C1	Yes
TS	24.341	Support of SMS over IP networks; Stage 3	C1	Yes
TS	24.604	Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.605	Conference (CONF) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.606	Message Waiting Indication (MWI) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.607	Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.608	Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.610	Communication HOLD (HOLD) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.611	Anonymous Communication Rejection (ACR) and Communication Barring (CB) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.615	Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol Specification	C1	Yes
TS	24.616	Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.628	Common Basic Communication procedures using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.629	Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.642	Completion of Communications to Busy Subscriber (CCBS) and Completion of Communications by No Reply (CCNR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification	C1	Yes
TS	24.647	Advice Of Charge (AOC) using IP Multimedia (IM) Core Network (CN) subsystem	C1	Yes
TS	24.654	Closed User Group (CUG) using IP Multimedia (IM) Core Network (CN) subsystem, Protocol Specification	C1	Yes
TR	24.930	Signalling flows for the session setup in the IP Multimedia core network Subsystem (IMS) based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3	C1	Yes
TR	26.954	Test plan for speech quality and delay through a headset electrical interface	S4	Yes
TS	29.162	Interworking between the IM CN subsystem and IP networks	C3	Yes
TS	29.163	Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks	C3	Yes
TS	29.165	Inter-IMS Network to Network Interface (NNI)	C3	Yes
TS	29.212	Policy and Charging Control (PCC); Reference points	C3	Yes
TS	29.213	Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping	C3	Yes
TS	29.214	Policy and charging control over Rx reference point	C3	Yes
TS	29.215	Policy and Charging Control (PCC) over S9 reference point; Stage 3	C3	Yes
TS	29.228	IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents	C4	Yes
TS	29.229	Cx and Dx interfaces based on the Diameter protocol; Protocol details	C4	Yes
TS	29.232	Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3	C4	Yes
TS	29.238	Interconnection Border Control Functions (IBCF) - Transition Gateway (TrGW) interface, Ix interface; Stage 3	C4	Yes
TS	29.292	Interworking between the IP Multimedia (IM) Core Network (CN) subsystem (IMS) and MSC Server for IMS Centralized Services (ICS)	C3	Yes
TS	29.311	Service Level Interworking (SLI) for messaging services	C3	Yes
TS	29.328	IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents	C4	Yes

Type	Number	Title	Group	For publication?
TS	29.329	Sh interface based on the Diameter protocol; Protocol details	C4	Yes
TS	29.333	Multimedia Resource Function Controller (MRFC) - Multimedia Resource Function Processor (MRFP) Mp interface; Stage 3	C4	Yes
TS	29.334	IMS Application Level Gateway (IMS-ALG) – IMS Access Gateway (IMS-AGW); Iq Interface; Stage 3	C4	Yes
TS	29.541	5G System; Network Exposure (NE) function services for Non-IP Data Delivery (NIDD) and Short Message Services (SMS); Stage 3	C4	Yes
TS	29.658	SIP Transfer of IP Multimedia Service Tariff Information; Protocol specification	C3	Yes
TS	31.101	UICC-terminal interface; Physical and logical characteristics	C6	Yes
TS	31.103	Characteristics of the IP Multimedia Services Identity Module (ISIM) application	C6	Yes
TS	31.115	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	C6	Yes
TS	31.116	Remote APDU Structure for (U)SIM Toolkit applications	C6	Yes
TS	31.133	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	C6	Yes
TS	32.240	Telecommunication management; Charging management; Charging architecture and principles	S5	Yes
TS	32.260	Telecommunication management; Charging management; IP Multimedia Subsystem (IMS) charging	S5	Yes
TS	32.275	Telecommunication management; Charging management; MultiMedia Telephony (MMTel) charging	S5	Yes
TS	32.276	Telecommunication management; Charging management; Voice Call Service (VCS) charging	S5	Yes
TS	32.281	Telecommunication management; Charging management; Announcement service	S5	Yes
TS	32.290	Telecommunication management; Charging management; 5G system; Services, operations and procedures of charging using Service Based Interface (SBI)	S5	Yes
TS	32.291	Telecommunication management; Charging management; 5G system, charging service; Stage 3	S5	Yes
TS	32.295	Telecommunication management; Charging management; Charging Data Record (CDR) transfer	S5	Yes
TS	32.297	Telecommunication management; Charging management; Charging Data Record (CDR) file format and transfer	S5	Yes
TS	32.298	Telecommunication management; Charging management; Charging Data Record (CDR) parameter description	S5	Yes
TS	32.299	Telecommunication management; Charging management; Diameter charging applications	S5	Yes
TS	33.141	Presence service; Security	S3	Yes
TS	33.203	3G security; Access security for IP-based services	S3	Yes
TS	33.210	Network Domain Security (NDS); IP network layer security	S3	Yes
TS	33.226	Security assurance for IP Multimedia Subsystem (IMS)	S3	Yes
TS	33.328	IP Multimedia Subsystem (IMS) media plane security	S3	Yes
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	R5	Yes
TS	34.229-2	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	R5	Yes
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 suite (ATS)	R5	Yes
TS	34.229-5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 5: Protocol conformance specification using 5G System (5GS)	R5	Yes

Type	Number	Title	Group	For publication?
TS	36.579-5	Mission Critical (MC) services over LTE; Part 5: Abstract test suite (ATS)	R5	Yes
TS	37.579-1	Mission Critical (MC) services; Part 1: Common test environment	R5	Yes
TS	37.579-2	Mission Critical (MC) services; Part 2: Mission Critical Push To Talk (MCPTT) User Equipment (UE) Protocol conformance specification	R5	Yes
TS	37.579-4	Mission Critical (MC) services; Part 4: Test Applicability and Implementation Conformance Statement (ICS) proforma specification	R5	Yes
TS	37.579-5	Mission Critical (MC) services; Part 5: Abstract test suite (ATS)	R5	Yes
TS	37.579-6	Mission Critical (MC) services; Part 6: Mission Critical Video (MCVideo) User Equipment (UE) Protocol conformance specification	R5	Yes
TS	37.579-7	Mission Critical (MC) services; Part 7: Mission Critical Data (MCData) User Equipment (UE) Protocol conformance specification	R5	Yes

Annex A (informative):
void

Annex B (informative):
void

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2008-05					First draft based on SA1 request to SP-38, refined at SP-39. Spec list based on Specification Manager's whim.		0.0.0
2008-12					Update based on continuing evolution of Release 8 specs	0.0.0	0.1.0
2008-12	SP-42	SP-080724			Incorporation of comments from TSG CT: removal of §5.1 (substituted by two examples in annex A); indication in list of specs of those which do not progress beyond NGN R2 applicability.	0.1.0	0.2.0
2009-01					Update to specs list table resulting from further feedback; Correction to URL of TISPAN spec mapping following revamp of 3GPP web site	0.2.0	0.3.0
2009-03	CP-43	CP-090103			Presentation for information	0.3.0	1.0.0
2009-03	SP-43	SP-090035			Presentation to TSG for approval	1.0.0	1.1.0
2009-03	SP-43				Approved	1.1.0	8.0.0
2009-05	SP-44	SP-090463	2	2	Annex mapping 3GPP2 specs to 3GPP common IMS specs	8.0.0	
		SP-090464	3		Revise scope		8.1.0
2009-06	SP-46	SP-090695	4	1	Correction to list of specifications	8.1.0	8.2.0
2010-03	SP-47	SP-100012		5	Update list of specs	8.2.0	8.3.0
				6	Update list of specs	8.3.0	
				7	Removal of information only relevant for earlier Release		9.0.0
2010-12	SP-50	SP-100871	8	1	Clarification of scope to indicate use of complete set of TSs/TRs is not obligatory in all IMS implementations	9.0.0	9.1.0
2011-03	SP-51				Automatic upgrade on Release freeze	9.1.0	10.0.0
2011-06	SP-52	SP-110298	11		Correction to list of specifications	10.0.0	10.1.0
2012-03	SP-55	SP-120114	14	1	Changes to list of Specs: common IMS	10.1.0	10.2.0
2013-03	SP-59	SP-130155	15		Update to list of specs	10.2.0	10.3.0
2013-03	SP-59	SP-130155	16		Update to list of specs	10.3.0	11.0.0
2014-06					Minor editorial	11.0.0	11.0.1

Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2016-03	SA#71	SP-160127	0017		F	Raise spec to Rel-12	12.0.0
2016-12	SA#74	SP-160975	0018	1	F	Update to list of specs	13.0.0
2017-03	SA#75					Promotion to Release 14 without technical change	14.0.0
2017-06	SA#76	SP-170461	0019		F	Replace list of specs with pointer to web page showing up to date list	14.1.0
2018-06	SA#80					Upgrade unchanged on freeze of Rel-15	15.0.0
2020-07	SA#88-e					Upgrade on freeze of Rel-16	16.0.0
2022-03	SA#95-e					Upgrade on freeze of Rel-17	17.0.0
2025-12	SA#110	SP-251610	0029	1	A	Correction of the IMS specifications list	17.1.0

History

Version	Date	Status
V17.0.0	April 2022	Publication
V17.1.0	February 2026	Publication