

ETSI TS 134 229-1 V6.4.1 (2008-01)

Technical Specification

**Universal Mobile Telecommunications System (UMTS);
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 34.229-1 version 6.4.0 Release 6)**



Reference

RTS/TSGR-0534229-1v641

Keywords

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/chaicor/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 2008.
All rights reserved.

DECT™, **PLUGTESTS™**, **UMTS™**, **TIPHON™**, 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.

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

Intellectual Property Rights	2
Foreword.....	2
Foreword.....	4
Introduction	4
1 Scope	5
2 References	5
3 Definitions, symbols and abbreviations	6
4 Overview	6
Annex A (informative): Change history	7
History	10

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.

Introduction

The present document is the first part of a multi-part conformance specification valid for 3GPP Release 5 and later releases.

3GPP TS 34.229-1 (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 1: Protocol conformance specification- current document.

3GPP TS 34.229-2 [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 2: Implementation Conformance Statement (ICS) proforma specification".

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)".

1 Scope

The present document specifies the protocol conformance testing for the User Equipment (UE) supporting the Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP).

This is the first part of a multi-part test specification. The following information can be found in this part:

- the overall test structure;
- the test configurations;
- the conformance requirement and reference to the core specifications;
- the test purposes; and
- a brief description of the test procedure, the specific test requirements and short message exchange table.

The following information relevant to testing can be found in accompanying specifications:

- the applicability of each test case [5].

A detailed description of the expected sequence of messages can be found in the 3rd part of present test specification [6].

The Implementation Conformance Statement (ICS) pro-forma can be found in the 2nd part of the present test specification [5].

The present document is valid for UE implemented according to 3GPP Releases starting from Release 5 up to the Release indicated on the cover page of the present document.

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.
 - For a Release 1999 UE, references to 3GPP documents are to version 3.x.y, when available.
 - For a Release 4 UE, references to 3GPP documents are to version 4.x.y, when available.
 - For a Release 5 UE, references to 3GPP documents are to version 5.x.y, when available.
 - For a Release 6 UE, references to 3GPP documents are to version 6.x.y, when available.
 - For a Release 7 UE, references to 3GPP documents are to version 7.x.y, when available.

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

[2] - [3] void

[5] 3GPP 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) proforma 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] - [60] void
- [61] 3GPP TS 34.229-1 (Release 7): "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- current document".

3 Definitions, symbols and abbreviations

(void)

4 Overview

The requirements of the present document are provided in 3GPP TS 34.229-1 Release 7 [61].

Annex A (informative): Change history

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

Meeting -1st- Level	Doc-1st- Level	CR	Rev	Subject	Cat	Version - Current	Version - New	Doc-2nd- Level
RP-31	RP-060052	-	-	Update to version 1.0.0 and present to RAN#31 for information	-	0.0.1	1.0.0	R5-060292
-	-	-	-	Update to version 2.0.0 at RAN5#31	-	1.0.0	2.0.0	R5-061398
-	-	-	-	Update to version 2.1.0 during RAN5#31 e-mail agreement procedure	-	2.0.0	2.1.0	R5-061398r1
RP-32	RP-060269	-	-	MCC Editorial clean up version 2.1.1 - and present to RAN#32 for approval to go under revision control (as version 5.0.0)	-	2.1.0	2.1.1	-
-	-	-	-	Update to version 5.0.0 after RAN#32	-	2.1.1	5.0.0	-
RP-33	RP-060565	0001	-	Correction to TS 34.229-1 contents	F	5.0.0	5.1.0	R5-062360
RP-33	RP-060565	0002	-	Clarification to Emergency Test Case	F	5.0.0	5.1.0	R5-062543
RP-33	RP-060565	0003	-	Clarifications for SDP handling in TC 12.1 MO Call Successful	F	5.0.0	5.1.0	R5-062309
RP-33	RP-060565	0004	-	Test Case Correction on SigComp in the Initial registration	F	5.0.0	5.1.0	R5-062362
RP-33	RP-060565	0005	-	New TC on SigComp in the MO Call	F	5.0.0	5.1.0	R5-062323
RP-33	RP-060565	0006	-	Correction to authentication test case 9.2 Invalid Behaviour – SQN out of range	F	5.0.0	5.1.0	R5-062372
RP-33	RP-060565	0007	-	New TC on SigComp in the MT Call	F	5.0.0	5.1.0	R5-062363
RP-33	RP-060565	0008	-	New test cases for P-CSCF Discovery List	F	5.0.0	5.1.0	R5-062364
RP-33	RP-060565	0009	-	General IMS testing corrections and clarifications	F	5.0.0	5.1.0	R5-062371
RP-33	RP-060565	0010	-	Alignment with TS 24.229 version 5.16.0 affecting TCs 8.1, 8.2, 8.3 and the default message REGISTER.	F	5.0.0	5.1.0	R5-062215
RP-33	RP-060565	0011	-	Correction for TC 8.4: Invalid Behaviour – 423 Interval Too Brief	F	5.0.0	5.1.0	R5-062216
RP-33	RP-060565	0012	-	Correction for TCs 9.1 and 9.2	F	5.0.0	5.1.0	R5-062370
RP-34	RP-060746	0013	-	Introduction of default messages and generic registration test procedure for early IMS security	F	5.1.0	5.2.0	R5-063332
RP-34	RP-060746	0014	-	Introduction of a registration test case for early IMS security	F	5.1.0	5.2.0	R5-063384
RP-34	RP-060746	0015	-	Updating of test cases to cover both IMS support and early IMS security scenarios	F	5.1.0	5.2.0	R5-063529
RP-34	RP-060746	0016	-	Introduction of a registration test case for combined IMS support and early IMS security	F	5.1.0	5.2.0	R5-063526
RP-34	RP-060746	0017	-	Introduction of a registration test case for combined IMS support and early IMS security and UICC with SIM application	F	5.1.0	5.2.0	R5-063385
RP-34	RP-060746	0018	-	Removal of MO Call - 488 not accepted here for rel 5	F	5.1.0	5.2.0	R5-063330
RP-34	RP-060746	0019	-	Clarifications to MT test case	F	5.1.0	5.2.0	R5-063386
RP-34	RP-060746	0020	-	Corrections to MO with sigcomp test case	F	5.1.0	5.2.0	R5-063387
RP-34	RP-060746	0021	-	Corrections to P-CSCF Discovery (IPv6) test cases	F	5.1.0	5.2.0	R5-063388
RP-34	RP-060746	0022	-	New TCs on SigComp Invalid Behaviour	F	5.1.0	5.2.0	R5-063389
RP-34	RP-060746	0023	-	Addition of annex with the test ISIM parameters	F	5.1.0	5.2.0	R5-063390
RP-34	RP-060746	0024	-	Introduction of a postamble for IMS testing	F	5.1.0	5.2.0	R5-063391
RP-34	RP-060746	0025	-	Correction to Generic DHCP test procedure	F	5.1.0	5.2.0	R5-063242
RP-34	RP-060746	0027	-	Clarifications for IMS emergency call test case 14.2	F	5.1.0	5.2.0	R5-063522
RP-34	RP-060746	0028	-	Clarification of Default Message for IMS emergency call test case 14.2	F	5.1.0	5.2.0	R5-063523
RP-34	RP-060748	0033	-	Update of PDP Context and P-CSCF Discovery test cases to Rel-6	F	5.1.0	5.2.0	R5-063572
RP-34	RP-060746	0026	-	Production of pointer version 5.2.0 of TS 34.229-1 with no technical contents	F	5.1.0	5.2.0	R5-063291
RP-34	RP-060748	0029	-	Updates to TC 11.1 Network-initiated deregistration for IMS Rel-6	F	5.1.0	6.0.0	R5-063574
RP-34	RP-060748	0030	-	Updates to TC 11.2 Network initiated re-authentication for IMS Rel-6	F	5.1.0	6.0.0	R5-063573
RP-34	RP-060748	0031	-	Updates to TC 12.1 MO Call Successful for IMS Rel-6	F	5.1.0	6.0.0	R5-063570
RP-34	RP-060748	0032	-	Updates to TC 8.1 Initial registration for IMS Rel-6	F	5.1.0	6.0.0	R5-063569
RP-35	RP-070088	0034	-	New TC 12.6	F	6.0.0	6.1.0	R5-070408
RP-35	RP-070088	0035	-	New TC 12.7	F	6.0.0	6.1.0	R5-070447
RP-35	RP-070088	0036	-	New TC 12.8	F	6.0.0	6.1.0	R5-070446
RP-35	RP-070088	0037	-	TC 8.5 Conformance requirement update	F	6.0.0	6.1.0	R5-070099
RP-35	RP-070088	0038	-	TC 8.6 Conformance requirement update	F	6.0.0	6.1.0	R5-070410
RP-35	RP-070088	0039	-	TC 8.7 Conformance requirement update	F	6.0.0	6.1.0	R5-070101
RP-35	RP-070088	0040	-	TC 12.2 Conformance requirement update	F	6.0.0	6.1.0	R5-070102
RP-35	RP-070088	0041	-	Corrections and updating default message according release 6	F	6.0.0	6.1.0	R5-070407
RP-35	RP-070088	0042	-	IMS security and early IMS security capability	F	6.0.0	6.1.0	R5-070104

Meeting -1st- Level	Doc-1st- Level	CR	Rev	Subject	Cat	Version - Current	Version -New	Doc-2nd- Level
				update				
RP-35	RP-070088	0043	-	Correct missing IMS security in TC 14.2	F	6.0.0	6.1.0	R5-070105
RP-35	RP-070088	0044	-	Rename TC 8.6 and 8.7 to include "IMS security" instead of "IMS support"	F	6.0.0	6.1.0	R5-070106
RP-35	RP-070088	0045	-	Updates to TC 34.229 TC 12.1	F	6.0.0	6.1.0	R5-070412
RP-35	RP-070088	0046	-	Corrections to P-CSCF Discovery (IPv4) test cases	F	6.0.0	6.1.0	R5-070413
RP-35	RP-070088	0047	-	New IMS CC test case for MO call initiation when MO UE supports and uses preconditions whereas MT UE does not support preconditions (TC 12.5).	F	6.0.0	6.1.0	R5-070414
RP-35	RP-070088	0048	-	Updates to TC 8.2 User Initiated Re-Registration for IMS Rel-6	F	6.0.0	6.1.0	R5-070415
RP-35	RP-070088	0049	-	Removal of IMS CC test cases 7.7 and 7.8	F	6.0.0	6.1.0	R5-070210
RP-35	RP-070088	0050	-	Update IMS default message content for 503 Service Unavailable response	F	6.0.0	6.1.0	R5-070416
RP-35	RP-070088	0051	-	Update Specific message Content for 503 response in IMS TCs 10.1 and 12.2.	F	6.0.0	6.1.0	R5-070417
RP-35	RP-070088	0052	-	Updates to TC 13.1 SigComp in the Initial registration for IMS Rel-6	F	6.0.0	6.1.0	R5-070418
RP-35	RP-070088	0053	-	Updates to TC 13.2 SigComp in the MO Call for IMS Rel-6	F	6.0.0	6.1.0	R5-070419
RP-35	RP-070089	0054	-	Updates to TC 13.3 SigComp in the MT Call for IMS Rel-6	F	6.0.0	6.1.0	R5-070420
RP-35	RP-070089	0055	-	Updates to TC 13.4 State creation before authentication for IMS Rel-6	F	6.0.0	6.1.0	R5-070421
RP-35	RP-070089	0056	-	Correction to test case 7.4	F	6.0.0	6.1.0	R5-070309
RP-35	RP-070089	0057	-	Rel-6 ISIM parameters	F	6.0.0	6.1.0	R5-070310
RP-35	RP-070089	0058	-	Updates to TC 12.4 Call initiation – Mobile termination for IMS Rel-6	F	6.0.0	6.1.0	R5-070424
RP-35	RP-070089	0059	-	Updates to TC 8.3 User initiated deregistration for IMS Rel-6	F	6.0.0	6.1.0	R5-070425
RP-36	RP-070362	0060	-	Usage of comp=sigcomp parameter in IMS TC 13.4	F	6.1.0	6.2.0	R5-071059
RP-36	RP-070362	0061	-	IMS TC 7.1: Additional option for coding the IPv4 address in PCO IE	F	6.1.0	6.2.0	R5-071437
RP-36	RP-070362	0062	-	Clarification on Require header in the UPDATE message for MT SigComp TC	F	6.1.0	6.2.0	R5-071489
RP-36	RP-070362	0063	-	Splitting MO Call TC 12.1 to Rel-5 and Rel-6 variants	F	6.1.0	6.2.0	R5-071496
RP-36	RP-070362	0064	-	Corrections and updates to TC 12.6	F	6.1.0	6.2.0	R5-071497
RP-36	RP-070362	0065	-	Corrections and updates to TC 12.7	F	6.1.0	6.2.0	R5-071498
RP-36	RP-070362	0066	-	Corrections and updates to TC 12.8	F	6.1.0	6.2.0	R5-071499
RP-36	RP-070362	0067	-	New TC MO Call (no resource reservation, preconditions used)	F	6.1.0	6.2.0	R5-071500
RP-36	RP-070362	0068	-	New TC MT Call (no resource reservation, preconditions used)	F	6.1.0	6.2.0	R5-071501
RP-36	RP-070362	0069	-	Clarification of test case purpose for TC 8.7 (wrong spec nr on the coversheet indicating 34.229-2, initially)	F	6.1.0	6.2.0	R5-071488
RP-37	RP-070607	70	-	Clarify parameter description in specific message contents	F	6.2.0	6.3.0	R5-072111
RP-37	RP-070607	71	-	Update the SDP RFC reference	F	6.2.0	6.3.0	R5-072112
RP-37	RP-070607	72	-	New TC User initiated re-registration for early IMS	F	6.2.0	6.3.0	R5-072113
RP-37	RP-070607	73	-	Correction to IMS CC test case 12.4	F	6.2.0	6.3.0	R5-072119
RP-37	RP-070594	74	-	Default message correction for 401 response	F	6.2.0	6.3.0	R5-072504
RP-37	RP-070594	75	-	Correct check of ACK message in 12.9	F	6.2.0	6.3.0	R5-072508
RP-37	RP-070594	76	-	Handling of optional PUBLISH messages	F	6.2.0	6.3.0	R5-072507
RP-37	RP-070607	77	-	Correct the check of SDP answer to the SDP offer	F	6.2.0	6.3.0	R5-072511
RP-37	RP-070607	78	-	Correct the re-invite message in 12.6	F	6.2.0	6.3.0	R5-072481
RP-37	RP-070594	79	-	IMSCC Test 8.3 / Supported header in Register message for de-registration	F	6.2.0	6.3.0	R5-072505
RP-37	RP-070594	80	-	Format of home domain name within the ISIM	F	6.2.0	6.3.0	R5-072506
RP-37	RP-070607	81	-	New TC Mobile initiated de-registration for early IMS	F	6.2.0	6.3.0	R5-072495
RP-38	RP-070874	87		IMS - Change of SUBSCRIBE Via header default value	F	6.3.0	6.4.0	R5-073468
RP-38	RP-070874	86		Production of 34.229-1 pointer version in Rel-6 pointing to Rel-7 version	F	6.3.0	6.4.0	R5-073278
				2007-12: correction to RP-38 entries in history table		6.4.0	6.4.1	

History

Document history		
V6.1.0	March 2007	Publication
V6.2.0	June 2007	Publication
V6.3.0	October 2007	Publication
V6.4.1	January 2008	Publication