



**Universal Mobile Telecommunications System (UMTS);  
LTE;  
Internet Protocol (IP) multimedia call control protocol  
based on Session Initiation Protocol (SIP)  
and Session Description Protocol (SDP);  
User Equipment (UE) conformance specification;  
Part 1: Protocol conformance specification  
(3GPP TS 34.229-1 version 14.8.0 Release 14)**



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**Keywords**LTE,UMTS

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# Foreword

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- z the third digit is incremented when editorial only changes have been incorporated in the document.

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# 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)".

NOTE 1: The ATS is written in a standard testing language, TTCN-3, as defined in ETSI ES 201 873 Parts 1 to 3 [36] [37] [38].

NOTE 2: For conformance testing of the UTRAN requirements refer to 3GPP TS 34.123 Parts 1 to 3 [2] [3] [4].

NOTE 3: Further information on testing can be found in ETSI ETS 300 406[9] and ISO/IEC 9646-1 [7].

For at least a minimum set of services, the prose descriptions of test cases will have a matching detailed test case implemented in TTCN-3 (and provided in 3GPP TS 34.229-3 [6]).

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# 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 3<sup>rd</sup> part of present test specification [6].

The Implementation Conformance Statement (ICS) pro-forma can be found in the 2<sup>nd</sup> 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.

Also, it is generally assumed that an IMS capable UE is compliant to GSMA PRD IR.92 [133] and GSMA PRD IR.94 [134]; any update of requirements in these GSMA PRD documents, which are relevant to the present document will be handled on a case by case basis, with due consideration given for grace period to be granted for the UE to comply to any updated requirements.

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# 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.
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[1] to [153] (void)

[154] 3GPP TS 34.229-1 Release 15: "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"

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# 3 Definitions, symbols and abbreviations

Void.

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## 4 Overview

### 4.1 Test Methodology

The requirements of the present document are provided in 3GPP TS 34.229-1 Release 15 [154].

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## 5 to 22 Void

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## Annex A to J: Void

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## Annex K (informative): Change history

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Meeting -1 <sup>st</sup> - Level	Doc-1 <sup>st</sup> -Level	CR	Rev	Subject	Cat	Version- Current	Version- New	Doc-2 <sup>nd</sup> -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 RAN#31	-	1.0.0	2.0.0	R5-061398
-	-	-	-	Update to version 2.1.0 during RAN#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 update	F	6.0.0	6.1.0	R5-070104

Meeting -1 <sup>st</sup> - Level	Doc-1 <sup>st</sup> -Level	CR	Rev	Subject	Cat	Version- Current	Version- New	Doc-2 <sup>nd</sup> -Level
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 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	0070	-	Clarify parameter description in specific message contents	F	6.2.0	6.3.0	R5-072111
RP-37	RP-070607	0071	-	Update the SDP RFC reference	F	6.2.0	6.3.0	R5-072112
RP-37	RP-070607	0072	-	New TC User initiated re-registration for early IMS	F	6.2.0	6.3.0	R5-072113
RP-37	RP-070607	0073	-	Correction to IMS CC test case 12.4	F	6.2.0	6.3.0	R5-072119
RP-37	RP-070594	0074	-	Default message correction for 401 response	F	6.2.0	6.3.0	R5-072504
RP-37	RP-070594	0075	-	Correct check of ACK message in 12.9	F	6.2.0	6.3.0	R5-072508
RP-37	RP-070594	0076	-	Handling of optional PUBLISH messages	F	6.2.0	6.3.0	R5-072507
RP-37	RP-070607	0077	-	Correct the check of SDP answer to the SDP offer	F	6.2.0	6.3.0	R5-072511
RP-37	RP-070607	0078	-	Correct the re-invite message in 12.6	F	6.2.0	6.3.0	R5-072481
RP-37	RP-070594	0079	-	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	0080	-	Format of home domain name within the ISIM	F	6.2.0	6.3.0	R5-072506
RP-37	RP-070607	0081	-	New TC Mobile initiated de-registration for early IMS	F	6.2.0	6.3.0	R5-072495
RP-38	RP-070874	0087	-	IMS - Change of SUBSCRIBE Via header default value	F	6.3.0	6.4.0	R5-073468
RP-38	RP-070874	0086	-	Production of 34.229-1 pointer version in Rel-6 pointing to Rel-7 version	F	6.3.0	6.4.0	R5-073278
RP-38	RP-070882	0082	-	Updating references of 34.229-1 for MTSI and GRUU	F	6.3.0	7.0.0	R5-073036
RP-38	RP-070882	0083	-	Updating case 8.1 Initial Registration for 24.229 Rel-7	F	6.3.0	7.0.0	R5-073440
RP-38	RP-070882	0084	-	New IMS Rel-7 test case for MO MTSI voice call	F	6.3.0	7.0.0	R5-073298
RP-38	RP-070882	0085	-	New IMS Rel-7 test case for MO MTSI call hold	F	6.3.0	7.0.0	R5-073444
RP-39	RP-080113	0088	-	Centralizing rules for dialog identifiers to common messages	F	7.0.0	7.1.0	R5-080025

Meeting -1 <sup>st</sup> - Level	Doc-1 <sup>st</sup> -Level	CR	Rev	Subject	Cat	Version- Current	Version- New	Doc-2 <sup>nd</sup> -Level
RP-39	RP-080113	0089		Updating conformance requirements of registration test cases for Rel-7	F	7.0.0	7.1.0	R5-080026
RP-39	RP-080113	0090		Updating references of 34.229-1 to IETF RFCs related to MTSI	F	7.0.0	7.1.0	R5-080368
RP-39	RP-080113	0091		New Annex F for generic requirements of MTSI supplementary services	F	7.0.0	7.1.0	R5-080598
RP-39	RP-080113	0092		Update of common messages for MTSI communication service identifier	F	7.0.0	7.1.0	R5-080029
RP-39	RP-080113	0093		New MTSI test case 15.12 MT call hold	F	7.0.0	7.1.0	R5-080485
RP-39	RP-080113	0094		New MTSI test case 15.13 Incoming Communication Barring	F	7.0.0	7.1.0	R5-080031
RP-39	RP-080113	0095		New MTSI test case 15.23 MO Explicit Communication Transfer	F	7.0.0	7.1.0	R5-080486
RP-39	RP-080113	0096		IMS test case 8.3 / Supported Header and expire rule during de-registration	F	7.0.0	7.1.0	R5-080518
RP-39	RP-080113	0097		Align via header for early IMS	F	7.0.0	7.1.0	R5-080542
RP-39	RP-080113	0098		New MTSI test case MO MTSI Text call	F	7.0.0	7.1.0	R5-080547
RP-39	RP-080113	0099		New MTSI test case Speech AMR, indicate all codec modes	F	7.0.0	7.1.0	R5-080558
RP-39	RP-080113	0100		New MTSI test case Speech AMR-WB, indicate all codec modes	F	7.0.0	7.1.0	R5-080559
RP-39	RP-080113	0101		New MTSI test case MT Video, add speech remove speech	F	7.0.0	7.1.0	R5-080560
RP-39	RP-080113	0102		New MTSI test case MT Video, add speech remove video	F	7.0.0	7.1.0	R5-080561
RP-39	RP-080113	0103		Add generic secondary PDP context procedure	F	7.0.0	7.1.0	R5-080092
RP-39	RP-080113	0104		New MTSI test case for MO Consultative Explicit Communication Transfer	F	7.0.0	7.1.0	R5-080505
RP-39	RP-080113	0105		New MTSI test case for MT Consultative Explicit Communication Transfer	F	7.0.0	7.1.0	R5-080506
RP-40	RP-080375	0106		Updating references and ICSI statements related to MTSI	F	7.1.0	7.2.0	R5-081047
RP-40	RP-080375	0107		Fix to SDP handling in MTSI test case 16.3.	F	7.1.0	7.2.0	R5-081540
RP-40	RP-080375	0108		Branch value of Via header in MT messages	F	7.1.0	7.2.0	R5-081049
RP-40	RP-080375	0109		Introducing conditions for MO and MT versions of IMS common messages	F	7.1.0	7.2.0	R5-081050
RP-40	RP-080375	0110		New MTSI test case 15.6 Communication Deflection	F	7.1.0	7.2.0	R5-081539
RP-40	RP-080375	0111		New MTSI test case 15.17 Creating a conference	F	7.1.0	7.2.0	<a href="#">R5-081052</a>
RP-40	RP-080375	0112		New MTSI test case 17.1 MO Speech add video remove video	F	7.1.0	7.2.0	R5-081541
RP-40	RP-080375	0113		New MTSI test case 15.5 Communication Forwarding unconditional	F	7.1.0	7.2.0	R5-081054
RP-40	RP-080375	0114		New MTSI test case 15.24 MT ECT - Blind Call Transfer	F	7.1.0	7.2.0	R5-081055
RP-40	RP-080375	0115		Update conformance requirement for TC 8.5	F	7.1.0	7.2.0	R5-081070
RP-40	RP-080375	0116		Update conformance requirement for TC 8.6	F	7.1.0	7.2.0	R5-081071
RP-40	RP-080375	0117		Update conformance requirement for TC 8.7	F	7.1.0	7.2.0	<a href="#">R5-081072</a>
RP-40	RP-080375	0118		Update conformance requirement for TC 8.8	F	7.1.0	7.2.0	<a href="#">R5-081073</a>
RP-40	RP-080375	0119		New MTSI test case MT MTSI Speech call	F	7.1.0	7.2.0	<a href="#">R5-081542</a>
RP-40	RP-080375	0120		New MTSI test case MT MTSI Video call	F	7.1.0	7.2.0	<a href="#">R5-081543</a>
RP-40	RP-080375	0121		New MTSI test case Speech AMR indicate selective codec modes	F	7.1.0	7.2.0	<a href="#">R5-081553</a>
RP-40	RP-080375	0122		New MTSI test case Speech AMR-WB indicate selective codec modes	F	7.1.0	7.2.0	<a href="#">R5-081545</a>
RP-40	RP-080375	0123		New MTSI test case MT Speech add video remove video	F	7.1.0	7.2.0	<a href="#">R5-081546</a>
RP-40	RP-080375	0124		New MTSI test case MT Speech add video remove speech	F	7.1.0	7.2.0	<a href="#">R5-081547</a>
RP-40	RP-080375	0125		Updating the content of the default INVITE message to Rel-7	F	7.1.0	7.2.0	<a href="#">R5-081537</a>
RP-40	RP-080427	0126		Correction to 380 Alternative Service message	F	7.1.0	7.2.0	<a href="#">R5-081538</a>
RP-41	RP-080563	0127		Add generic procedures for MTSI MT speech call, MT video call and MT text call	F	7.2.0	7.3.0	R5-083113
RP-41	RP-080563	0128		Update MTSI test case 12.13	F	7.2.0	7.3.0	R5-083114
RP-41	RP-080563	0129		Update MTSI test case 12.15	F	7.2.0	7.3.0	R5-083115
RP-41	RP-080563	0130		New MTSI test case 12.17 MT MTSI Text call	F	7.2.0	7.3.0	R5-083116
RP-41	RP-080563	0131		Update MTSI test case 16.1	F	7.2.0	7.3.0	R5-083126
RP-41	RP-080563	0132		Update MTSI test case 16.2	F	7.2.0	7.3.0	R5-083127
RP-41	RP-080563	0133		Update MTSI test case 16.3	F	7.2.0	7.3.0	R5-083128
RP-41	RP-080563	0134		Update MTSI test case 16.4	F	7.2.0	7.3.0	R5-083129
RP-41	RP-080563	0135		New MTSI test case 16.5 Video H.263 profile 0	F	7.2.0	7.3.0	R5-083130