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Technical Specification

**Universal Mobile Telecommunications System (UMTS);
Common test environments for User Equipment (UE)
conformance testing
(3GPP TS 34.108 version 3.16.0 Release 1999)**



Reference

RTS/TSGT-0134108v3g0

Keywords

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Foreword

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Introduction

The definition of the Conformance Tests for UE in 3G will be a complex task as the complete test suite covers RF, EMC and Protocol aspects of the UE.

Each test requires a Test Environment to be defined in which the UE has to operate to defined standards, constraints and performance. The overall task can be simplified if there are a number of well defined and agreed Common Test Environments where every one can be used for a number of tests. Hence the present documents defines testing conditions that are common to several tests avoiding the need to duplicate the same information for every single test.

The present document defines default values for a variety of common areas. Where values are not specified in test cases, the defaults in the present document will apply. If specified, the test case values will take precedence.

The present document addresses the FDD mode as well as the TDD mode.

1 Scope

The present document contains definitions of reference conditions and test signals, default parameters, reference radio bearer configurations used in radio bearer interoperability testing, common radio bearer configurations for other test purposes, common requirements for test equipment and generic set-up procedures for use in UE conformance tests.

2 References, Definitions and Technical Content

3GPP TS 34.108 Version 5 covers all Release 99 aspects.

Annex A (informative): Change history

Meeting -1st- Level	Doc-1st- Level	CR	Rev	Subject	Cat	Version- Current	Version- New	Doc-2nd- Level
TP-08				Approval of the specification		2.0.0	3.0.0	
TP-09	TP-000131	001		RRC Message Contents: RLCSize	C	3.0.1	3.1.0	T1-000190
TP-09	TP-000131	002		RRC Message Contents: RLCParam	C	3.0.1	3.1.0	T1-000191
TP-09	TP-000131	003		RRC Message Contents: PCPreamble	C	3.0.1	3.1.0	T1-000192
TP-09	TP-000131	004		RRC Message Contents: RBIdentity	C	3.0.1	3.1.0	T1-000193
TP-09	TP-000131	005		RRC Message Contents: TrCHParam	C	3.0.1	3.1.0	T1-000194
TP-09	TP-000131	006		RRC Message Contents: UECapability	C	3.0.1	3.1.0	T1-000195
TP-09	TP-000131	007		RRC Message Contents: RBMapping	C	3.0.1	3.1.0	T1-000196
TP-09	TP-000131	008		RRC Message Contents: PagingCause	C	3.0.1	3.1.0	T1-000197
TP-09	TP-000131	009		RRC Message Contents: CipherringAndIntegrity	C	3.0.1	3.1.0	T1-000198
TP-09	TP-000131	010		RRC Message Contents: RLCInfo	C	3.0.1	3.1.0	T1-000199
TP-09	TP-000131	011		RRC Message Contents: CompressedMode	C	3.0.1	3.1.0	T1-000200
TP-09	TP-000131	012		RRC Message Contents: SIB	C	3.0.1	3.1.0	T1-000201
TP-09	TP-000131	013		RRC Message Contents: PhyCH	D	3.0.1	3.1.0	T1-000202
TP-09	TP-000131	014		RRC Message Contents: Measurement	C	3.0.1	3.1.0	T1-000203
TP-09	TP-000131	015		RRC Message Contents: TFCS	C	3.0.1	3.1.0	T1-000204
TP-09	TP-000131	016		RRC Message Contents: DPCHFrameOffset	C	3.0.1	3.1.0	T1-000205
TP-09	TP-000131	017		Test USIM Parameters	F	3.0.1	3.1.0	T1-000215
TP-09	TP-000131	018		Correction to definition of the test algorithm for authentication (clause 8.1.2)	F	3.0.1	3.1.0	T1-000164
TP-09	TP-000131	019		Reference Radio Bearer Configurations	F	3.0.1	3.1.0	T1-000212
TP-09	TP-000131	020		TDD Single mode	F	3.0.1	3.1.0	T1-000220
TP-10	TP-000215	021		Common generic procedure for AS testing	B	3.1.0	3.2.0	T1-000294
TP-10	TP-000215	022		Requirements for the system simulator for support of Tcell parameter	F	3.1.0	3.2.0	T1-000303
TP-10	TP-000215	023		Minimum Performance Levels	F	3.1.0	3.2.0	T1-000306
TP-10	TP-000215	024		Downlink signal conditions and propagation conditions	D	3.1.0	3.2.0	T1-000307
TP-10	TP-000215	025		Updating 34.108 v3.1.0 to TDD single mode	F	3.1.0	3.2.0	T1-000281
TP-10	TP-000215	026		Application of integrity mode protection to signalling message by default	F	3.1.0	3.2.0	T1-000296
TP-10	TP-000215	027		Updates to the default message contents in clause 9	C	3.1.0	3.2.0	T1-000282
TP-10	TP-000215	028		Updates to System Information Block (SIB) and Master Information Block (MIB) messages	C	3.1.0	3.2.0	T1-000283
TP-10	TP-000215	029		Application of ciphering during conformance testing	C	3.1.0	3.2.0	T1-000285
TP-10	TP-000215	030		Addition for System Information parameters (34.108 clause 6.1)	F	3.1.0	3.2.0	T1-000304
TP-10	TP-000215	031		Correction for Generic Setup Procedures (34.108 clause 7.2)	F	3.1.0	3.2.0	T1-000305
TP-11	TP-010018	032		Default radio conditions for multi-cell environment	F	3.2.0	3.3.0	T1-010078
TP-11	TP-010018	033		Correction for Generic Setup Procedures (34.108 clause 7.2)	F	3.2.0	3.3.0	T1-010079
TP-11	TP-010018	034		Corrections for Test USIM Parameters(34.108 clause 8)	F	3.2.0	3.3.0	T1-010080
TP-11	TP-010018	035		Correction of clause number in TS 34.108.	D	3.2.0	3.3.0	T1-010081
TP-11	TP-010018	036		Update of authentication test algorithm	C	3.2.0	3.3.0	T1-010082
TP-11	TP-010018	037		Updates to clause 9 of TS 34.108 v3.2.0	F	3.2.0	3.3.0	T1-010084
TP-11	TP-010018	038		Updating to TDD single mode	F	3.2.0	3.3.0	T1-010088
TP-11	TP-010018	039		Simulated network environments for TDD mode (SIB)	F	3.2.0	3.3.0	T1-010089
TP-12	TP-010118	040		Corrections to clause 6.10 FDD parameters	F	3.3.0	3.4.0	T1-010205
TP-12	TP-010118	041		Corrections to clause 6.10 TDD parameters	F	3.3.0	3.4.0	T1-010206
TP-12	TP-010118	042		Adding section for radio bearer configurations intended for functional testing	D	3.3.0	3.4.0	T1-010210
TP-12	TP-010118	043		Update of list of abbreviations	D	3.3.0	3.4.0	T1-010211
TP-12	TP-010118	044		Updates to clause 6.1 and 9	F	3.3.0	3.4.0	T1-010212
TP-12	TP-010118	045		Updates to clause 7.4	F	3.3.0	3.4.0	T1-010213
TP-12	TP-010118	046		clause 6.1: System Information Blocks for TDD Mode	F	3.3.0	3.4.0	T1-010214
TP-12	TP-010118	047		Editorial corrections and removal of a reference document	F	3.3.0	3.4.0	T1-010215
TP-13	TP-010215	048		Correction to reference	F	3.4.0	3.5.0	T1-010275
TP-13	TP-010215	049		Editorial modification for References	F	3.4.0	3.5.0	T1-010276
TP-13	TP-010215	050		Some corrections in clause 5	F	3.4.0	3.5.0	T1-010277

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TP-13	TP-010215	051		Update to Scope Statement	F	3.4.0	3.5.0	T1-010278
TP-13	TP-010215	052		Clause 6.10 Definition of RB configurations, TDD parameters	F	3.4.0	3.5.0	T1-010279
TP-13	TP-010215	053		Updates to clause 6.1, clause 7.4 and clause 9	F	3.4.0	3.5.0	T1-010280
TP-13	TP-010215	054		Clause 6.1: Default radio conditions for Signalling tests	F	3.4.0	3.5.0	T1-010281
TP-13	TP-010215	055		Correction of Radio Bearer Configurations for FDD Mode	F	3.4.0	3.5.0	T1-010282
TP-13	TP-010215	056		Correction of Radio Bearer Configurations for TDD Mode	F	3.4.0	3.5.0	T1-010283
TP-13	TP-010215	057		Changes to Signalling Radio Bearer (SRB) numbering	F	3.4.0	3.5.0	T1-010284
TP-13	TP-010215	058		Missing bearers in tables 6.10.2.1.1 and 6.10.3.1.1	F	3.4.0	3.5.0	T1-010285
TP-13	TP-010215	059		Correction of system information block 5	F	3.4.0	3.5.0	T1-010286
TP-13	TP-010215	063		Clause 6.11 RBs for RLC and PDCP testing	F	3.4.0	3.5.0	T1-010290
TP-14	TP-010285	064	1	Correction to 6.1 Contents of System Information Blocks	F	3.5.0	3.6.0	T1-010474
TP-14	TP-010285	066	1	Corrections to clause 6.1, 7.4 and 9	F	3.5.0	3.6.0	T1-010472
TP-14	TP-010258	068		Reference Radio Conditions	F	3.5.0	3.6.0	T1-010460
TP-14	TP-010258	070		Modification of Test procedures for RF tests	F	3.5.0	3.6.0	T1-010462
TP-14	TP-010258	072		Default message contents for RF tests	F	3.5.0	3.6.0	T1-010464
TP-14	TP-010258	074		Correction to 6.10 Reference Radio Bearer configurations	F	3.5.0	3.6.0	T1-010466
TP-14	TP-010258	076		Definition of default value of rate matching attribute	F	3.5.0	3.6.0	T1-010468
TP-14	TP-010258	078		Update of clause 7.4 and 6.10	F	3.5.0	3.6.0	T1-010470
TP-14	TP-010291	080		Correction on introduction of section 6.10	F	3.5.0	3.6.0	--
TP-15	TP-020038	082		Replacement of Block STTD by Space Code Transmit Diversity (SCTD)	F	3.6.0	3.7.0	T1-020091
TP-15	TP-020038	084		Update of reference radio conditions	F	3.6.0	3.7.0	T1-020097
TP-15	TP-020038	086		Update of system reference configurations and default messages	F	3.6.0	3.7.0	T1-020099
TP-15	TP-020038	088		Corrections to 34108-360	F	3.6.0	3.7.0	T1-020101
TP-15	TP-020038	090		Introduction of new Reference RABs (LS from RAN T1-020025)	F	3.6.0	3.7.0	T1-020194
TP-15	TP-020038	092		Clarification of bit rate of Interactive/Background PS RAB function	F	3.6.0	3.7.0	T1-020105
TP-15	TP-020038	093		Update of SIBs for TDD mode in TS34.108 (Rel99)	F	3.6.0	3.7.0	T1-020106
				Correction of CR implementation errors in clauses: 6.10.2.2, 6.10.2.4.1.23 and 6.10.2.4.1.58.2.1.1		3.7.0	3.7.1	
TP-16	TP-020141	096		Correction to clause 7.3.3.4 RADIO BEARER SETUP message	F	3.7.1	3.8.0	T1-020271
TP-16	TP-020141	097		Change of RM attribute of DL:3.4 kbps SRBs for DCCH in TS34.108 for R99	F	3.7.1	3.8.0	T1-020272
TP-16	TP-020141	098		New additional RAB configuration (R1-020669) for R99	F	3.7.1	3.8.0	T1-020273
TP-16	TP-020141	099		Correction of Puncturing Limit for RABs in TS34.108 for R99	F	3.7.1	3.8.0	T1-020274
TP-16	TP-020141	100		Test USIM	F	3.7.1	3.8.0	T1-020275
TP-16	TP-020141	101		Section 6.1 (SIBs)Rel 99 TDD	F	3.7.1	3.8.0	T1-020276
TP-16	TP-020141	102		Section 6.10 References for TDD about Clarification of bit rate of Interactive/Background PS RAB	F	3.7.1	3.8.0	T1-020277
TP-16	TP-020141	103		Correction to default message on clause 9 for Rel'99	F	3.7.1	3.8.0	T1-020278
TP-16	TP-020141	104		Correction to clause 6.1 for Rel'99	F	3.7.1	3.8.0	T1-020279
TP-16	TP-020141	105		WCDMA1800 additions for Rel'99	F	3.7.1	3.8.0	T1-020280
TP-16	TP-020141	106		Section 7(reference) Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment TDD	F	3.7.1	3.8.0	T1-020281
TP-16	TP-020141	107		Section 9.1, Inclusion of Default message contents for TDD Rel 99(TS34.108)	F	3.7.1	3.8.0	T1-020282
TP-16	TP-020141	120		Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment	F	3.7.1	3.8.0	T1-020433
TP-17	TP-020184	122	-	Alignment of reference configurations on S-CCPCH with default system information messages	F	3.8.0	3.9.0	T1-020502
TP-17	TP-020184	124	-	Addition of reference compressed mode pattern	F	3.8.0	3.9.0	T1-020504
TP-17	TP-020184	126	-	Corrections to default message contents as T1S-020346rev1	F	3.8.0	3.9.0	T1-020506
TP-17	TP-020184	128	-	Additional default message contents for RF Testing	F	3.8.0	3.9.0	T1-020508
TP-17	TP-020184	130	-	Corrections related to SIB11, SIB12 and to the MEASUREMENT CONTROL message	F	3.8.0	3.9.0	T1-020526
TP-17	TP-020184	132	-	Corrections to clause 6.1 (T1S-020348rev1)	F	3.8.0	3.9.0	T1-020529

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TP-17	TP-020184	134	-	Introduction of reference configurations on S-CCPCH and PRACH with two interactive PS domain RABs	F	3.8.0	3.9.0	T1-020538
TP-17	TP-020184	136	-	Removal of reference radio bearer configurations for unidirectional streaming CS RABa above 64 kbps	F	3.8.0	3.9.0	T1-020540
TP-17	TP-020184	139	-	Some corrections and updates in clause 6.1 TS 34.108 for TDD mode	F	3.8.0	3.9.0	T1-020575
TP-17	TP-020184	141	-	Inclusion of default message contents for RF in clause 9.2 for TDD mode	F	3.8.0	3.9.0	T1-020577
TP-18	TP-020293	143	-	Correction to default messages in 9.1 and 9.2	F	3.9.0	3.10.0	T1-020657
TP-18	TP-020293	145	-	Corrections in the TDD test frequencies according to core specs	F	3.9.0	3.10.0	T1-020673
TP-18	TP-020293	147	-	Addition of alternative configuration using Turbo Coding for Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	F	3.9.0	3.10.0	T1-020693
TP-18	TP-020293	149	-	Correction to content of sub-clause 6.10.2	F	3.9.0	3.10.0	T1-020708
TP-18	TP-020293	151	-	Correction to SIB 11/12 definition	F	3.9.0	3.10.0	T1-020711
TP-18	TP-020293	153	-	Reference Measurement Channels	F	3.9.0	3.10.0	T1-020767
TP-18	TP-020293	155	-	Transferring system information definition using ASN.1 description to PRD	F	3.9.0	3.10.0	T1-020777
TP-18	TP-020293	157	-	Correction to RLC RAB TFCS	F	3.9.0	3.10.0	T1-020779
TP-18	TP-020293	159	-	Default Message contents : Correction from CRs approved in RP17meeting	F	3.9.0	3.10.0	T1-020782
TP-18	TP-020293	161	-	Corrections to SIB1 to SIB6	F	3.9.0	3.10.0	T1-020798
TP-18	TP-020293	163	-	Correction to RAB configurations as revision of T1S020755	F	3.9.0	3.10.0	T1-020800
TP-18	TP-020293	165	-	Parameter addition for Reference RABs based on LS from RAN2	F	3.9.0	3.10.0	T1-020802
TP-18	TP-020293	167	-	Addition to clause 7.4 for multi call as T1S-020576rev2 (revision to T1S020819)	F	3.9.0	3.10.0	T1-020817
TP-18	TP-020293	170	-	Correction to Contents of the Scheduling Block System Information in clause 6.1.3.	F	3.9.0	3.10.0	T1-020843
TP-19	TP-030043	172	-	RAB Removal from R99 TS 34.108 as T1S030001rev1	F	3.10.0	3.11.0	T1-030036
TP-19	TP-030043	174	-	Combine all Radio Bearer Setup messages into one table	F	3.10.0	3.11.0	T1-030039
TP-19	TP-030043	176	-	Corrections to SB and SIB configurations in clause 6.1 as T1S030045rev1	F	3.10.0	3.11.0	T1-030041
TP-19	TP-030043	178	-	Correction to TS34.108 R99 ; PAGING TYPE1 message (Packet in PS)	F	3.10.0	3.11.0	T1-030043
TP-19	TP-030043	180	-	Clarification of authentication test algorithm and GSM cipher key	F	3.10.0	3.11.0	T1-030045
TP-19	TP-030043	182	-	Addition of simulated network environment for inter-RAT test cases	F	3.10.0	3.11.0	T1-030047
TP-19	TP-030043	184	-	Corrections to SIB1 to align with default values for LAC and RAC in 51.010-1	F	3.10.0	3.11.0	T1-030049
TP-19	TP-030043	186	-	Addition of default inter-RAT handover messages	F	3.10.0	3.11.0	T1-030051
TP-19	TP-030043	188	-	Correction of activation time IEs in default messages	F	3.10.0	3.11.0	T1-030053
TP-19	TP-030043	190	-	Correction to default SECURITY MODE COMMAND message	F	3.10.0	3.11.0	T1-030055
TP-19	TP-030043	192	-	Addition of option for UL CM only in default reference CM patterns	F	3.10.0	3.11.0	T1-030057
TP-19	TP-030043	194	-	Introduction of a reference RB configuration for RMC for BTFD tests (R99)	F	3.10.0	3.11.0	T1-030059
TP-19	TP-030043	196	-	Update of the RRC connection request messages in 34.108 R99	F	3.10.0	3.11.0	T1-030062
TP-19	TP-030044	199	-	Update of default parameters for 1 to 8 cell environments (TDD), clause 6.1.4, Rel 99	F	3.10.0	3.11.0	T1-030131
TP-19	TP-030044	201	-	Update of Multi-cell environment for default radio conditions (TDD), clause 6.1.6 (Inclusion of cell 4), Rel 99	F	3.10.0	3.11.0	T1-030209
TP-19	TP-030044	203	-	Modification to Generic Registration Procedures	F	3.10.0	3.11.0	T1-030221
TP-19	TP-030044	205	-	Update of default configurations to enable testing of low end UE	F	3.10.0	3.11.0	T1-030227
TP-20	TP-030098	207	-	Reinstate parameters for Interactive or background /UL:64 kbps / PS RAB	F	3.11.0	3.12.0	T1-030436
TP-20	TP-030098	209	-	Correction to Figure 7.4.1.1 (Rel-99)	F	3.11.0	3.12.0	T1-030482
TP-20	TP-030098	211	-	Update of SIB 11 and 12 in clause 6.1.0b in TS34.108 (TDD)	F	3.11.0	3.12.0	T1-030506
TP-20	TP-030098	213	-	Update of Default parameters for 1 to 8 cell environments in TS34.108 (TDD)	F	3.11.0	3.12.0	T1-030508
TP-20	TP-030098	215	-	Correction of default messages according to 25331	F	3.11.0	3.12.0	T1-030631

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				CR1823				
TP-20	TP-030098	217	-	Section 8.2: Definition of default values for authentication key K on test USIM	F	3.11.0	3.12.0	T1-030643
TP-20	TP-030098	220	-	Correction to RADIO BEARER RELEASE and RRC CONNECTION SETUP messages (Revision of T1-030568)	F	3.11.0	3.12.0	T1-030698
TP-20	TP-030098	222	-	Update of Reconfiguration messages [revision to T1-030691]	F	3.11.0	3.12.0	T1-030711
TP-20	TP-030140	225	-	Correction to default SIB5 (FDD)	F	3.11.0	3.12.0	T1-030744
TP-21	TP-030191	227	-	CR to 34.108, R99, Clarification of seg_count in 6.1.0a.3	F	3.12.0	3.13.0	T1-030826
TP-21	TP-030191	229	-	General correction in clause 7.4 for Common generic procedures for AS testing	F	3.12.0	3.13.0	T1-030975
TP-21	TP-030191	232	-	Incorrect activation time in CELL_FACH state	F	3.12.0	3.13.0	T1-031063
TP-21	TP-030191	234	-	Incorrect Transport Channel Parameters	F	3.12.0	3.13.0	T1-031065
TP-21	TP-030191	236	-	Corrections to TS 34.108 common procedures in clause 7.4 of R'99 of TS 34.108	F	3.12.0	3.13.0	T1-031094
TP-21	TP-030191	238	-	Removal of RLC AM in the Default Message Content	F	3.12.0	3.13.0	T1-031150
TP-21	TP-030191	241	-	CR 34.108 R99: Manual attach in State 7 Registered Idle Mode on CS/PS	F	3.12.0	3.13.0	T1-031174
TP-21	TP-030191	243	-	URA Identity in Cell Update Confirm and URA Update Confirm	F	3.12.0	3.13.0	T1-031178
TP-21	TP-030191	245	-	CR to 34.108 R99; Correction to specification to reflect a change already approved in TTCN CR T1-030396	F	3.12.0	3.13.0	T1-031240
TP-21	TP-030191	247	-	CR to 34.108 REL-99; Correction to section 7.3 Test procedures for RF test	F	3.12.0	3.13.0	T1-031250
TP-22	TP-030279	259	2	CR on PAGING TYPE 1, RRC CONNECTION REQUEST and RRC CONNECTION SETUP messages for MT RR Connection	F	3.13.0	3.14.0	T1-031595
TP-22	TP-030279	261		CR 34.108 R99: EFRPLMNACT (RPLMN Last used Access Technology) removed	F	3.13.0	3.14.0	T1-031380
TP-22	TP-030279	263	1	Update of default messages for RRC CONNECTION SETUP and SECURITY MODE COMMAND	F	3.13.0	3.14.0	T1-031546
TP-22	TP-030279	265	1	Description and corrections of channels for minimum performance levels, TDD mode.	F	3.13.0	3.14.0	T1-031644
TP-22	TP-030279	267	1	Test frequencies of UMTS800MHz band VI	B	3.13.0	3.14.0	T1-031554
TP-22	TP-030279	270	1	Update of generic test procedure for TX, RX and Performance Requirement	F	3.13.0	3.14.0	T1-031609
TP-22	TP-030279	272	1	Introduction of generic test procedure for RRM handover test cases	F	3.13.0	3.14.0	T1-031607
TP-22	TP-030279	274		Correction of CM TGD parameter	F	3.13.0	3.14.0	T1-031451
TP-22	TP-030279	276		Corrections to default message contents of Radio Bearer Release	F	3.13.0	3.14.0	T1-031470
TP-22	TP-030279	278	1	Modification to default DPCCH_Power_offset value	F	3.13.0	3.14.0	T1-031597

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TP-22	TP-030279	282		Correction of TFCS for radio bearer combination 6.10.2.4.1.51b	F	3.13.0	3.14.0	T1-031526
TP-23	TP-040037	286	-	Corrections to default message contents of RRC Connection Setup message	F	3.14.0	3.15.0	T1-040079
TP-23	TP-040037	288	-	Correction to Default parameters for Cells 1 to 8 in MultiPLMN cell environments – R99	F	3.14.0	3.15.0	T1-040094
TP-23	TP-040037	290	-	Corrections to TDD HCR RABs	F	3.14.0	3.15.0	T1-040102
TP-23	TP-040037	293	-	DL physical channel configuration in Default message contents for RF	F	3.14.0	3.15.0	T1-040147
TP-23	TP-040037	297	-	Correction to handling of Entered Parameter IE in default contents for Initial Direct Transfer	F	3.14.0	3.15.0	T1-040307
TP-23	TP-040037	299	-	New Radio Bearer Setup (FDD) message for RF (Revision of T1-040257)	F	3.14.0	3.15.0	T1-040416
TP-23	TP-040037	301	-	The diverse operation in TDD mode updating according to the core specification	F	3.14.0	3.15.0	T1-040369
TP-24	TP-040112	336	-	Replacement of the technical content of 34.108 Rel 99 by a pointer to the gathered releases document	D	3.15.0	3.16.0	T1-040932

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