



TECHNICAL SPECIFICATION

**LTE;
Evolved Universal Terrestrial Radio Access (E-UTRA);
User Equipment (UE) conformance specification;
Radio transmission and reception;
Part 3: Radio Resource Management (RRM)
conformance testing
(3GPP TS 36.521-3 version 18.11.0 Release 18)**



Reference

RTS/TSGR-0536521-3v18.11.0

Keywords

LTE

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 the 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.....	131
Introduction	131
1 Scope	132
2 References	132
3 Definition of terms, symbols and abbreviations.....	133
3.1 Terms.....	133
3.2 Symbols.....	135
3.3 Abbreviations	136
3.4 Void.....	139
3.5 Additional notation.....	139
3.5.1 Groups of bands	139
3.5.1A Groups of bands for satellite access.....	140
3A Requirements for support of RRM.....	141
3A.1 General	141
3A.2 Requirements Classification for Statistical Testing.....	142
3A.3 RRM Test Configurations	142
3A.3.1 UE with Single or Multiple Antenna Connector.....	142
3A.3.2 Test configuration for Inter band test cases	142
3A.3.3 Test configuration for Inter RAT test cases	142
3A.3.4 UE with Multiband Capability.....	143
3A.3.5 E-UTRAN operating band configuration.....	143
3A.3.6 CA configuration	143
3A.3.7 HD-FDD category 0 testing	144
3A.3.8 Test configuration for satellite access	144
3A.4 Antenna Configuration	144
3A.4.1 Antenna connection for 4 Rx capable UEs	144
3A.4.1.1 Introduction.....	144
3A.4.1.2 Principle of testing	144
3A.4.1.2.1 Single carrier tests	144
3A.4.1.2.2 Carrier aggregation and Dual connectivity tests.....	145
3A.4.1.2.3 Antenna connection for bands where 2RX is supported.....	146
3A.4.1.2.4 Antenna connection for bands where 4RX is supported.....	146
3A.5 Test Cases for Synchronous and Asynchronous Dual Connectivity	146
3A.5.1 Introduction.....	146
3A.5.2 Principle of Testing.....	146
3A.6 Test cases for Carrier Aggregation under operation with Frame Structure 3 Test Cases with Different Duplex Modes	146
3A.6.1 Introduction.....	146
3A.6.2 Principle of testing	147
3A.7 Test case selection criteria for RRM Carrier Aggregation	147
3A.7.1 Introduction.....	147
3A.7.2 Principle of testing	147
4 E-UTRAN RRC_IDLE State Mobility	148
4.0 148	
4.1 E-UTRAN Cell Selection	148
4.2 E-UTRAN Cell Re-Selection	148
4.2.1 E-UTRAN FDD - FDD cell re-selection intra frequency case	148
4.2.1.1 Test purpose	148
4.2.1.2 Test applicability.....	148

4.2.1.3	Minimum conformance requirements	148
4.2.1.4	Test description	149
4.2.1.4.1	Initial conditions	149
4.2.1.4.2	Test procedure	150
4.2.1.4.3	Message contents	151
4.2.1.5	Test requirement	151
4.2.2	E-UTRAN TDD - TDD cell re-selection intra frequency case	152
4.2.2.1	Test purpose	152
4.2.2.2	Test applicability	152
4.2.2.3	Minimum conformance requirements	152
4.2.2.4	Test description	153
4.2.2.4.1	Initial conditions	153
4.2.2.4.2	Test procedure	154
4.2.2.4.3	Message contents	155
4.2.2.5	Test requirement	155
4.2.3	E-UTRAN FDD - FDD cell re-selection inter frequency case	156
4.2.3.1	Test purpose	156
4.2.3.2	Test applicability	156
4.2.3.3	Minimum conformance requirements	156
4.2.3.4	Test description	157
4.2.3.4.1	Initial conditions	157
4.2.3.4.2	Test procedure	158
4.2.3.4.3	Message contents	159
4.2.3.5	Test requirement	159
4.2.4	E-UTRAN FDD - TDD cell re-selection inter frequency case	161
4.2.4.1	Test purpose	161
4.2.4.2	Test applicability	161
4.2.4.3	Minimum conformance requirements	162
4.2.4.4	Test description	163
4.2.4.4.1	Initial conditions	163
4.2.4.4.2	Test procedure	164
4.2.4.4.3	Message contents	164
4.2.4.5	Test requirement	165
4.2.5	E-UTRAN TDD - FDD cell re-selection inter frequency case	167
4.2.5.1	Test purpose	167
4.2.5.2	Test applicability	167
4.2.5.3	Minimum conformance requirements	167
4.2.5.4	Test description	168
4.2.5.4.1	Initial conditions	168
4.2.5.4.2	Test procedure	169
4.2.5.4.3	Message contents	170
4.2.5.5	Test requirement	170
4.2.6	E-UTRAN TDD - TDD cell re-selection inter frequency case	172
4.2.6.1	Test purpose	172
4.2.6.2	Test applicability	172
4.2.6.3	Minimum conformance requirements	172
4.2.6.4	Test description	173
4.2.6.4.1	Initial conditions	174
4.2.6.4.2	Test procedure	174
4.2.6.4.3	Message contents	175
4.2.6.5	Test requirement	175
4.2.7	E-UTRAN FDD - FDD Inter frequency case in the existence of non-allowed CSG cell	177
4.2.7.1	Test purpose	178
4.2.7.2	Test applicability	178
4.2.7.3	Minimum conformance requirements	178
4.2.7.4	Test description	179
4.2.7.4.1	Initial conditions	179
4.2.7.4.2	Test procedure	180
4.2.7.4.3	Message contents	181
4.2.7.5	Test requirement	182
4.2.8	E-UTRAN TDD - TDD Inter frequency case in the existence of non-allowed CSG cell	184
4.2.8.1	Test purpose	184

4.2.8.2	Test applicability	184
4.2.8.3	Minimum conformance requirements	184
4.2.8.4	Test description	185
4.2.8.4.1	Initial conditions	185
4.2.8.4.2	Test procedure	186
4.2.8.4.3	Message contents	187
4.2.8.5	Test requirement	189
4.2.9	E-UTRAN FDD - FDD intra frequency cell re-selection case for 5MHz bandwidth	191
4.2.9.1	Test purpose	191
4.2.9.2	Test applicability	191
4.2.9.3	Minimum conformance requirements	191
4.2.9.4	Test description	191
4.2.9.4.1	Initial conditions	191
4.2.9.4.2	Test procedure	191
4.2.9.4.3	Message contents	191
4.2.9.5	Test requirement	191
4.2.10	E-UTRAN FDD - FDD reselection using an increased number of carriers	192
4.2.10.1	Test purpose	192
4.2.10.2	Test applicability	192
4.2.10.3	Minimum conformance requirements	192
4.2.10.4	Test description	194
4.2.10.4.1	Initial conditions	194
4.2.10.4.2	Test procedure	196
4.2.10.4.3	Message contents	197
4.2.10.5	Test requirement	197
4.2.11	E-UTRAN TDD - TDD reselection using an increased number of carriers	199
4.2.11.1	Test purpose	199
4.2.11.2	Test applicability	199
4.2.11.3	Minimum conformance requirements	199
4.2.11.4	Test description	199
4.2.11.4.1	Initial conditions	199
4.2.11.4.2	Test procedure	201
4.2.11.4.3	Message contents	202
4.2.11.5	Test requirement	202
4.2.12	E-UTRAN FDD - FDD Intra frequency case for CE UE in normal coverage	204
4.2.12.1	Test purpose	204
4.2.12.2	Test applicability	204
4.2.12.3	Minimum conformance requirements	204
4.2.12.4	Test description	205
4.2.12.4.1	Initial conditions	205
4.2.12.4.2	Test procedure	206
4.2.12.4.3	Message contents	207
4.2.12.5	Test requirement	207
4.2.13	E-UTRAN HD - FDD Intra frequency case for CE UE in normal coverage	208
4.2.13.1	Test purpose	208
4.2.13.2	Test applicability	208
4.2.13.3	Minimum conformance requirements	208
4.2.13.4	Test description	208
4.2.13.4.1	Initial conditions	209
4.2.13.4.2	Test procedure	209
4.2.13.4.3	Message contents	209
4.2.13.5	Test requirement	209
4.2.14	E-UTRAN TDD - TDD Intra frequency case for CE UE in normal coverage	211
4.2.14.1	Test purpose	211
4.2.14.2	Test applicability	211
4.2.14.3	Minimum conformance requirements	211
4.2.14.4	Test description	211
4.2.14.4.1	Initial conditions	211
4.2.14.4.2	Test procedure	212
4.2.14.4.3	Message contents	212
4.2.14.5	Test requirement	212
4.2.15	E-UTRAN FDD - FDD Intra frequency case for CE UE in enhanced coverage	213

4.2.15.1	Test purpose	213
4.2.15.2	Test applicability	213
4.2.15.3	Minimum conformance requirements	213
4.2.15.4	Test description	214
4.2.15.4.1	Initial conditions	214
4.2.15.4.2	Test procedure	215
4.2.15.4.3	Message contents	216
4.2.15.5	Test requirement	216
4.2.16	E-UTRAN HD - FDD Intra frequency case for CE UE in enhanced coverage	217
4.2.16.1	Test purpose	217
4.2.16.2	Test applicability	218
4.2.16.3	Minimum conformance requirements	218
4.2.16.4	Test description	218
4.2.16.4.1	Initial conditions	218
4.2.16.4.2	Test procedure	219
4.2.16.4.3	Message contents	219
4.2.16.5	Test requirement	219
4.2.17	E-UTRAN TDD - TDD Intra frequency case for CE UE in enhanced coverage	220
4.2.17.1	Test purpose	220
4.2.17.2	Test applicability	220
4.2.17.3	Minimum conformance requirements	220
4.2.17.4	Test description	220
4.2.17.4.1	Initial conditions	220
4.2.17.4.2	Test procedure	221
4.2.17.4.3	Message contents	221
4.2.17.5	Test requirement	221
4.2.18	HD-FDD Intra frequency cell reselection for Category NB1 UE in In-Band Mode under Normal Coverage	222
4.2.18.1	Test purpose	223
4.2.18.2	Test applicability	223
4.2.18.3	Minimum conformance requirements	223
4.2.18.4	Test description	223
4.2.18.4.1	Initial conditions	223
4.2.18.4.2	Test procedure	224
4.2.18.4.3	Message contents	225
4.2.18.5	Test requirement	226
4.2.19	HD - FDD Intra frequency case for UE Category NB1 In-Band mode in enhanced coverage	227
4.2.19.1	Test purpose	227
4.2.19.2	Test applicability	227
4.2.19.3	Minimum conformance requirements	228
4.2.19.4	Test description	228
4.2.19.4.1	Initial conditions	228
4.2.19.4.2	Test procedure	229
4.2.19.4.3	Message contents	230
4.2.19.5	Test requirement	230
4.2.20	E-UTRAN FDD - FDD Intra frequency case for UE Category 1bis	232
4.2.20.1	Test purpose	232
4.2.20.2	Test applicability	232
4.2.20.3	Minimum conformance requirements	232
4.2.20.4	Test description	233
4.2.20.4.1	Initial conditions	233
4.2.20.4.2	Test procedure	234
4.2.20.4.3	Message contents	234
4.2.20.5	Test requirement	235
4.2.21	E-UTRAN TDD - TDD Intra frequency case for UE Category 1bis	236
4.2.21.1	Test purpose	236
4.2.21.2	Test applicability	236
4.2.21.3	Minimum conformance requirements	236
4.2.21.4	Test description	236
4.2.21.4.1	Initial conditions	236
4.2.21.4.2	Test procedure	237
4.2.21.4.3	Message contents	237

4.2.21.5	Test requirement	238
4.2.22	E-UTRAN FDD - FDD cell re-selection intra frequency case for UE configured with highSpeedEnhancedMeasFlag	239
4.2.22.1	Test purpose	239
4.2.22.2	Test applicability	239
4.2.22.3	Minimum conformance requirements	239
4.2.22.4	Test description	240
4.2.22.4.1	Initial conditions	240
4.2.22.4.2	Test procedure	241
4.2.22.4.3	Message contents	242
4.2.22.5	Test requirement	242
4.2.23	E-UTRAN TDD - TDD cell re-selection intra frequency case for UE configured with highSpeedEnhancedMeasFlag	243
4.2.23.1	Test purpose	243
4.2.23.2	Test applicability	243
4.2.23.3	Minimum conformance requirements	244
4.2.23.4	Test description	244
4.2.23.4.1	Initial conditions	244
4.2.23.4.2	Test procedure	245
4.2.23.4.3	Message contents	246
4.2.23.5	Test requirement	246
4.2.24	HD - FDD Inter frequency case for UE Category NB1 In-Band mode in enhanced coverage	248
4.2.24.1	Test purpose	248
4.2.24.2	Test applicability	248
4.2.24.3	Minimum conformance requirements	248
4.2.24.4	Test description	248
4.2.24.4.1	Initial conditions	248
4.2.24.4.2	Test procedure	249
4.2.24.4.3	Message contents	250
4.2.24.5	Test requirement	250
4.2.25	E-UTRAN FDD - FDD Inter frequency case for CE UE in normal coverage	252
4.2.25.1	Test purpose	252
4.2.25.2	Test applicability	252
4.2.25.3	Minimum conformance requirements	252
4.2.25.4	Test description	253
4.2.25.4.1	Initial conditions	253
4.2.25.4.2	Test procedure	254
4.2.25.4.3	Message contents	254
4.2.25.5	Test requirement	254
4.2.26	E-UTRAN HD - FDD Inter frequency case for CE UE in normal coverage	256
4.2.26.1	Test purpose	256
4.2.26.2	Test applicability	256
4.2.26.3	Minimum conformance requirements	256
4.2.26.4	Test description	256
4.2.26.4.1	Initial conditions	256
4.2.26.4.2	Test procedure	256
4.2.26.4.3	Message contents	257
4.2.26.5	Test requirement	257
4.2.27	E-UTRAN TDD - TDD Inter frequency case for CE UE in normal coverage	258
4.2.27.1	Test purpose	258
4.2.27.2	Test applicability	258
4.2.27.3	Minimum conformance requirements	258
4.2.27.4	Test description	258
4.2.27.4.1	Initial conditions	258
4.2.27.4.2	Test procedure	259
4.2.27.4.3	Message contents	259
4.2.27.5	Test requirement	259
4.2.28	E-UTRAN FDD - FDD Inter frequency case for CE UE in enhanced coverage	260
4.2.28.1	Test purpose	260
4.2.28.2	Test applicability	261
4.2.28.3	Minimum conformance requirements	261
4.2.28.4	Test description	262

4.2.28.4.1	Initial conditions	262
4.2.28.4.2	Test procedure	263
4.2.28.4.3	Message contents	264
4.2.28.5	Test requirement	264
4.2.29	E-UTRAN HD - FDD Inter frequency case for CE UE in enhanced coverage	265
4.2.29.1	Test purpose	265
4.2.29.2	Test applicability	265
4.2.29.3	Minimum conformance requirements	265
4.2.29.4	Test description	265
4.2.29.4.1	Initial conditions	265
4.2.29.4.2	Test procedure	266
4.2.29.4.3	Message contents	266
4.2.29.5	Test requirement	266
4.2.30	E-UTRAN TDD Inter frequency case for CE UE in enhanced coverage	267
4.2.30.1	Test purpose	267
4.2.30.2	Test applicability	267
4.2.30.3	Minimum conformance requirements	267
4.2.30.4	Test description	267
4.2.30.4.1	Initial conditions	268
4.2.30.4.2	Test procedure	268
4.2.30.4.3	Message contents	268
4.2.30.5	Test requirement	268
4.2.31	E-UTRAN FDD - FDD Inter frequency case for UE Category 1bis	269
4.2.31.1	Test purpose	269
4.2.31.2	Test applicability	270
4.2.31.3	Minimum conformance requirements	270
4.2.31.4	Test description	271
4.2.31.4.1	Initial conditions	271
4.2.31.4.2	Test procedure	271
4.2.31.4.3	Message contents	271
4.2.31.5	Test requirement	271
4.2.32	E-UTRAN FDD - TDD Inter frequency case for UE Category 1bis	273
4.2.32.1	Test purpose	273
4.2.32.2	Test applicability	274
4.2.32.3	Minimum conformance requirements	274
4.2.32.4	Test description	274
4.2.32.4.1	Initial conditions	274
4.2.32.4.2	Test procedure	274
4.2.32.4.3	Message contents	274
4.2.32.5	Test requirement	274
4.2.33	E-UTRAN TDD - FDD Inter frequency case for UE Category 1bis	276
4.2.33.1	Test purpose	276
4.2.33.2	Test applicability	276
4.2.33.3	Minimum conformance requirements	276
4.2.33.4	Test description	277
4.2.33.4.1	Initial conditions	277
4.2.33.4.2	Test procedure	277
4.2.33.4.3	Message contents	277
4.2.33.5	Test requirement	277
4.2.34	E-UTRAN TDD - TDD Inter frequency case for UE Category 1bis	279
4.2.34.1	Test purpose	279
4.2.34.2	Test applicability	279
4.2.34.3	Minimum conformance requirements	279
4.2.34.4	Test description	279
4.2.34.4.1	Initial conditions	279
4.2.34.4.2	Test procedure	279
4.2.34.4.3	Message contents	280
4.2.34.5	Test requirement	280
4.2.35	E-UTRAN TDD - TDD Intra frequency case for UE Category NB1 In-Band mode in normal coverage	282
4.2.35.1	Test purpose	282
4.2.35.2	Test applicability	282

4.2.35.3	Minimum conformance requirements	282
4.2.35.4	Test description	283
4.2.35.4.1	Initial conditions	283
4.2.35.4.2	Test procedure	284
4.2.35.4.3	Message contents	284
4.2.35.5	Test requirement	284
4.2.36	E-UTRAN TDD - TDD Intra frequency case for UE Category NB1 In-Band mode in enhanced coverage	286
4.2.36.1	Test purpose	286
4.2.36.2	Test applicability	286
4.2.36.3	Minimum conformance requirements	286
4.2.36.4	Test description	288
4.2.36.4.1	Initial conditions	288
4.2.36.4.2	Test procedure	289
4.2.36.4.3	Message contents	289
4.2.36.5	Test requirement	289
4.2.37	E-UTRAN TDD - TDD Inter frequency case for UE Category NB1 In-Band mode in enhanced coverage	291
4.2.37.1	Test purpose	291
4.2.37.2	Test applicability	291
4.2.37.3	Minimum conformance requirements	291
4.2.37.4	Test description	292
4.2.37.4.1	Initial conditions	292
4.2.37.4.2	Test procedure	293
4.2.37.4.3	Message contents	293
4.2.37.5	Test requirement	293
4.2.38	HD - FDD Intra frequency case for UE Category NB1 In-Band mode in normal coverage with serving cell RRM measurement relaxation	295
4.2.38.1	Test purpose	295
4.2.38.2	Test applicability	295
4.2.38.3	Minimum conformance requirements	295
4.2.38.4	Test description	297
4.2.38.4.1	Initial conditions	297
4.2.38.4.2	Test procedure	298
4.2.38.4.3	Message contents	299
4.2.38.5	Test requirement	299
4.3	E-UTRAN to UTRAN Cell Re-Selection	301
4.3.1	E-UTRAN FDD - UTRAN FDD cell re-selection	301
4.3.1.1	E-UTRA FDD - UTRAN FDD cell reselection: UTRA FDD is of higher priority	301
4.3.1.1.1	Test purpose	301
4.3.1.1.2	Test applicability	301
4.3.1.1.3	Minimum conformance requirements	301
4.3.1.1.4	Test description	302
4.3.1.1.5	Test requirement	304
4.3.1.2	E-UTRAN FDD - UTRAN FDD cell re-selection: UTRA FDD is of lower priority	306
4.3.1.2.1	Test purpose	306
4.3.1.2.2	Test applicability	306
4.3.1.2.3	Minimum conformance requirements	306
4.3.1.2.4	Test description	307
4.3.1.2.5	Test requirement	309
4.3.1.3	E-UTRAN FDD - UTRAN FDD cell re-selection in fading propagation conditions: UTRA FDD is of lower priority	310
4.3.1.3.1	Test purpose	310
4.3.1.3.2	Test applicability	310
4.3.1.3.3	Minimum conformance requirements	310
4.3.1.3.4	Test description	311
4.3.1.3.5	Test requirement	313
4.3.1.4	E-UTRAN FDD - UTRAN FDD cell re-selection: UTRA FDD is of lower priority for 5MHz bandwidth	316
4.3.1.4.1	Test purpose	316
4.3.1.4.2	Test applicability	316
4.3.1.4.3	Minimum conformance requirements	316

4.3.1.4.4	Test description	317
4.3.1.4.5	Test requirement	318
4.3.1.5	Idle mode FDD to UTRA FDD interRAT reselection	318
4.3.1.5.1	Test purpose	318
4.3.1.5.2	Test applicability	318
4.3.1.5.3	Minimum conformance requirements	318
4.3.1.5.4	Test description	320
4.3.1.5.5	Test requirement	324
4.3.2	E-UTRAN FDD - UTRAN TDD cell re-selection	326
4.3.2.1	Test purpose	326
4.3.2.2	Test applicability	326
4.3.2.3	Minimum conformance requirements	326
4.3.2.3.1	3.84Mcps TDD option	326
4.3.2.3.2	1.28Mcps TDD option	326
4.3.2.3.3	7.68Mcps TDD option	327
4.3.2.4	Test description	327
4.3.2.4.1	3.84Mcps TDD option	327
4.3.2.4.2	1.28Mcps TDD option	327
4.3.2.4.3	7.68 Mcps TDD option	329
4.3.2.5	Test requirement	329
4.3.2.5.1	3.84Mcps TDD option	329
4.3.2.5.2	1.28Mcps TDD option	329
4.3.2.5.3	7.68 Mcps TDD option	331
4.3.2A	E-UTRA FDD to UTRA TDD cell re-selection for IncMon	331
4.3.2A.1	Test purpose	331
4.3.2A.2	Test applicability	331
4.3.2A.3	Minimum conformance requirements	331
4.3.2A.4	Test description	333
4.3.2A.4.1	Initial conditions	333
4.3.2A.4.2	Test procedure	334
4.3.2A.4.3	Message contents	335
4.3.2A.5	Test requirement	336
4.3.3	E-UTRAN TDD - UTRAN FDD cell re-selection	338
4.3.3.1	Test purpose	339
4.3.3.2	Test applicability	339
4.3.3.3	Minimum conformance requirements	339
4.3.3.4	Test description	339
4.3.3.4.1	Initial conditions	339
4.3.3.4.2	Test procedure	340
4.3.3.4.3	Message contents	341
4.3.3.5	Test requirement	341
4.3.3A	Idle mode TDD to UTRA FDD interRAT reselection	343
4.3.3A.1	Test purpose	343
4.3.3A.2	Test applicability	343
4.3.3A.3	Minimum conformance requirements	343
4.3.3A.4	Test description	343
4.3.3A.4.1	Initial conditions	343
4.3.3A.4.2	Test procedure	345
4.3.3A.4.3	Message contents	346
4.3.3A.5	Test requirement	347
4.3.4	E-UTRAN TDD - UTRAN TDD cell re-selection	349
4.3.4.1	E-UTRA TDD - UTRAN TDD cell re-selection: UTRA is of higher priority	349
4.3.4.1.1	Test purpose	349
4.3.4.1.2	Test applicability	349
4.3.4.1.3	Minimum conformance requirements	349
4.3.4.1.4	Test description	350
4.3.4.1.5	Test requirement	352
4.3.4.2	E-UTRAN TDD - UTRAN TDD cell re-selection: UTRA is of lower priority	354
4.3.4.2.1	Test purpose	354
4.3.4.2.2	Test applicability	354
4.3.4.2.3	Minimum conformance requirements	354
4.3.4.2.4	Test description	355

4.3.4.2.5	Test requirement	357
4.3.4.3	EUTRA TDD-UTRA TDD cell reselection in fading propagation conditions: UTRA TDD is of lower priority.....	358
4.3.4.3.1	Test purpose	358
4.3.4.3.2	Test applicability	358
4.3.4.3.3	Minimum conformance requirements.....	358
4.3.4.3.4	Test description	359
4.3.4.3.5	Test requirement	362
4.3.4.4	E-UTRA TDD to UTRA TDD cell re-selection for IncMon	364
4.3.4.4.1	Test purpose	364
4.3.4.4.2	Test applicability	365
4.3.4.4.3	Minimum conformance requirements.....	365
4.3.4.4.4	Test description	365
4.3.4.4.5	Test requirement	368
4.4	E-UTRAN to GSM Cell Re-Selection.....	371
4.4.1	E-UTRAN FDD - GSM cell re-selection.....	371
4.4.1.1	Test purpose	371
4.4.1.2	Test applicability	371
4.4.1.3	Minimum conformance requirements	371
4.4.1.4	Test description	372
4.4.1.4.1	Initial conditions	372
4.4.1.4.2	Test procedure	372
4.4.1.4.3	Message contents.....	373
4.4.1.5	Test requirement	373
4.4.2	E-UTRAN TDD - GSM cell re-selection	374
4.4.2.1	Test purpose	374
4.4.2.2	Test applicability.....	375
4.4.2.3	Minimum conformance requirements	375
4.4.2.4	Test description	375
4.4.2.4.1	Initial conditions.....	375
4.4.2.4.2	Test procedure	376
4.4.2.4.3	Message contents.....	377
4.4.2.5	Test requirement	377
4.5	E-UTRAN to HRPD Cell Re-Selection.....	378
4.5.1	E-UTRAN FDD - HRPD Cell re-selection.....	378
4.5.1.1	E-UTRAN FDD - HRPD Cell Reselection: HRPD is of Lower Priority	378
4.5.1.1.1	Test purpose	378
4.5.1.1.2	Test applicability	378
4.5.1.1.3	Minimum conformance requirements.....	378
4.5.1.1.4	Test description	379
4.5.1.1.5	Test requirement	380
4.5.2	E-UTRAN TDD - HRPD Cell re-selection.....	381
4.5.2.1	E-UTRAN TDD - HRPD Cell Reselection: HRPD is of Lower Priority	381
4.5.2.1.1	Test purpose	381
4.5.2.1.2	Test applicability	382
4.5.2.1.3	Minimum conformance requirements.....	382
4.5.2.1.4	Test description	382
4.5.2.1.5	Test requirement	383
4.6	E-UTRAN to cdma2000 1xRTT Cell Re-Selection	385
4.6.1	E-UTRAN FDD - cdma2000 1xRTT Cell re-selection	385
4.6.1.1	E-UTRAN FDD - cdma2000 1x Cell Reselection: cdma2000 1X is of Lower Priority	385
4.6.1.1.1	Test purpose	385
4.6.1.1.2	Test applicability	385
4.6.1.1.3	Minimum conformance requirements.....	385
4.6.1.1.4	Test description	386
4.6.1.1.5	Test requirements	387
4.6.2	E-UTRAN TDD - cdma2000 1xRTT Cell re-selection	389
4.6.2.1	E-UTRAN TDD - cdma2000 1x Cell Reselection: cdma2000 1X is of Lower Priority	389
4.6.2.1.1	Test purpose	389
4.6.2.1.2	Test applicability	389
4.6.2.1.3	Minimum conformance requirements.....	389
4.6.2.1.4	Test description	389

4.6.2.1.5	Test requirements	391
5	E-UTRAN RRC_CONNECTED State Mobility	393
5.0	393	
5.1	E-UTRAN Handover.....	393
5.1.1	E-UTRAN FDD-FDD Handover intra frequency case	393
5.1.1.1	Test purpose	393
5.1.1.2	Test applicability.....	393
5.1.1.3	Minimum conformance requirements	393
5.1.1.4	Test description	394
5.1.1.4.1	Initial conditions.....	394
5.1.1.4.2	Test procedure	395
5.1.1.4.3	Message contents.....	395
5.1.1.5	Test requirement	397
5.1.2	E-UTRAN TDD-TDD Handover intra frequency case.....	398
5.1.2.1	Test purpose	398
5.1.2.2	Test applicability.....	398
5.1.2.3	Minimum conformance requirements	398
5.1.2.4	Test description	399
5.1.2.4.1	Initial conditions.....	399
5.1.2.4.2	Test procedure	400
5.1.2.4.3	Message contents.....	400
5.1.2.5	Test requirement	402
5.1.3	E-UTRAN FDD-FDD Handover inter frequency case	403
5.1.3.1	Test purpose	403
5.1.3.2	Test applicability.....	403
5.1.3.3	Minimum conformance requirements	403
5.1.3.4	Test description	403
5.1.3.4.1	Initial conditions.....	403
5.1.3.4.2	Test procedure	404
5.1.3.4.3	Message contents.....	405
5.1.3.5	Test requirement	406
5.1.3_2	E-UTRAN FDD – FDD Inter frequency handover for UE Category 1bis.....	408
5.1.3_2.1	Test purpose	408
5.1.3_2.2	Test applicability.....	408
5.1.3_2.3	Minimum conformance requirements	408
5.1.3_2.4	Test description	408
5.1.3_2.4.1	Initial conditions.....	408
5.1.3_2.4.2	Test procedure	409
5.1.3_2.4.3	Message contents.....	409
5.1.3_2.5	Test requirement	409
5.1.4	E-UTRAN TDD-TDD Handover inter frequency case.....	410
5.1.4.1	Test purpose	410
5.1.4.2	Test applicability.....	410
5.1.4.3	Minimum conformance requirements	410
5.1.4.4	Test description	411
5.1.4.4.1	Initial conditions.....	411
5.1.4.4.2	Test procedure	412
5.1.4.4.3	Message contents.....	412
5.1.4.5	Test requirement	414
5.1.4_2	E-UTRAN TDD-TDD Handover inter frequency case for UE Category 1bis	415
5.1.4_2.1	Test purpose	415
5.1.4_2.2	Test applicability.....	415
5.1.4_2.3	Minimum conformance requirements	415
5.1.4_2.4	Test description	415
5.1.4_2.4.1	Initial conditions.....	415
5.1.4_2.4.2	Test procedure	416
5.1.4_2.4.3	Message contents.....	416
5.1.4_2.5	Test requirement	416
5.1.5	E-UTRAN FDD-FDD inter frequency Handover: unknown target cell	417
5.1.5.1	Test purpose	417

5.1.5.2	Test applicability	417
5.1.5.3	Minimum conformance requirements	417
5.1.5.4	Test description	418
5.1.5.4.1	Initial conditions	418
5.1.5.4.2	Test procedure	419
5.1.5.4.3	Message contents	419
5.1.5.5	Test requirement	420
5.1.5_2	E-UTRAN FDD – FDD Inter frequency handover: unknown target cell for UE Category 1bis	421
5.1.5_2.1	Test purpose	421
5.1.5_2.2	Test applicability	421
5.1.5_2.3	Minimum conformance requirements	421
5.1.5_2.4	Test description	421
5.1.5_2.4.1	Initial conditions	421
5.1.5_2.4.2	Test procedure	422
5.1.5_2.4.3	Message contents	422
5.1.5_2.5	Test requirement	422
5.1.6	E-UTRAN TDD-TDD inter frequency handover: unknown target cell	423
5.1.6.1	Test purpose	423
5.1.6.2	Test applicability	423
5.1.6.3	Minimum conformance requirements	423
5.1.6.4	Test description	424
5.1.6.4.1	Initial conditions	424
5.1.6.4.2	Test procedure	424
5.1.6.4.3	Message contents	425
5.1.6.5	Test requirement	425
5.1.6_2	E-UTRAN TDD-TDD inter frequency handover: unknown target cell for UE Category 1bis	427
5.1.6_2.1	Test purpose	427
5.1.6_2.2	Test applicability	427
5.1.6_2.3	Minimum conformance requirements	427
5.1.6_2.4	Test description	427
5.1.6_2.4.1	Initial conditions	427
5.1.6_2.4.2	Test procedure	427
5.1.6_2.4.3	Message contents	428
5.1.6_2.5	Test requirement	428
5.1.7	E-UTRAN FDD-TDD Handover inter frequency case	429
5.1.7.1	Test purpose	429
5.1.7.2	Test applicability	429
5.1.7.3	Minimum conformance requirements	429
5.1.7.4	Test description	430
5.1.7.4.1	Initial conditions	430
5.1.7.4.2	Test procedure	431
5.1.7.4.3	Message contents	431
5.1.7.5	Test requirement	433
5.1.7_2	E-UTRAN FDD – TDD Inter frequency handover for UE Category 1bis	434
5.1.7_2.1	Test purpose	434
5.1.7_2.2	Test applicability	435
5.1.7_2.3	Minimum conformance requirements	435
5.1.7_2.4	Test description	435
5.1.7_2.4.1	Initial conditions	435
5.1.7_2.4.2	Test procedure	436
5.1.7_2.4.3	Message contents	436
5.1.7_2.5	Test requirement	436
5.1.8	E-UTRAN TDD-FDD Handover inter frequency case	438
5.1.8.1	Test purpose	438
5.1.8.2	Test applicability	438
5.1.8.3	Minimum conformance requirements	438
5.1.8.4	Test description	438
5.1.8.4.1	Initial conditions	438
5.1.8.4.2	Test procedure	439
5.1.8.4.3	Message contents	440
5.1.8.5	Test requirement	441
5.1.8_2	E-UTRAN TDD – FDD Inter frequency handover for UE Category 1bis	443

5.1.8_2.1	Test purpose	443
5.1.8_2.2	Test applicability	443
5.1.8_2.3	Minimum conformance requirements	443
5.1.8_2.4	Test description	443
5.1.8_2.4.1	Initial conditions	443
5.1.8_2.4.2	Test procedure	444
5.1.8_2.4.3	Message contents	444
5.1.8_2.5	Test requirement	444
5.1.9	E-UTRAN FDD-FDD Intra frequency handover for 5MHz bandwidth	446
5.1.9.1	Test purpose	446
5.1.9.2	Test applicability	446
5.1.9.3	Minimum conformance requirements	446
5.1.9.4	Test description	446
5.1.9.4.1	Initial conditions	446
5.1.9.4.2	Test procedure	447
5.1.9.4.3	Message contents	447
5.1.9.5	Test requirement	447
5.1.10	E-UTRAN FDD-FDD Handover intra frequency handover for UE category 0	447
5.1.10.1	Test purpose	447
5.1.10.2	Test applicability	447
5.1.10.3	Minimum conformance requirements	448
5.1.10.4	Test description	448
5.1.10.4.1	Initial conditions	448
5.1.10.4.2	Test procedure	449
5.1.10.4.3	Message contents	450
5.1.10.5	Test requirement	450
5.1.11	E-UTRAN HD-FDD Handover intra frequency handover for UE category 0	451
5.1.11.1	Test purpose	451
5.1.11.2	Test applicability	451
5.1.11.3	Minimum conformance requirements	451
5.1.11.4	Test description	452
5.1.11.4.1	Initial conditions	452
5.1.11.4.2	Test procedure	452
5.1.11.4.3	Message contents	453
5.1.11.5	Test requirement	453
5.1.12	E-UTRAN TDD-TDD Handover intra frequency handover for UE category 0	454
5.1.12.1	Test purpose	454
5.1.12.2	Test applicability	454
5.1.12.3	Minimum conformance requirements	454
5.1.12.4	Test description	455
5.1.12.4.1	Initial conditions	455
5.1.12.4.2	Test procedure	456
5.1.12.4.3	Message contents	457
5.1.12.5	Test requirement	457
5.1.13	E-UTRAN FDD-FDD Intra frequency handover for CE UEs in CEModeA	458
5.1.13.1	Test purpose	458
5.1.13.2	Test applicability	458
5.1.13.3	Minimum conformance requirements	458
5.1.13.4	Test description	459
5.1.13.4.1	Initial conditions	459
5.1.13.4.2	Test procedure	459
5.1.13.4.3	Message contents	460
5.1.13.5	Test requirement	463
5.1.14	E-UTRAN HD-FDD Intra frequency handover for CE UEs in CEModeA	465
5.1.14.1	Test purpose	465
5.1.14.2	Test applicability	465
5.1.14.3	Minimum conformance requirements	465
5.1.14.4	Test description	466
5.1.14.4.1	Initial conditions	466
5.1.14.4.2	Test procedure	466
5.1.14.4.3	Message contents	467
5.1.14.5	Test requirement	467