

# ETSI TS 136 521-3 V15.6.0 (2020-04)



**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 15.6.0 Release 15)**



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<https://standards.iteh.ai/catalog/standards/sist/1d6d8abb-1b83-44b2-8247-65b9e5137b85/etsi-ts-136-521-3-v15.6.0-2020-04>

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## Foreword

This Technical Specification has been produced by the 3<sup>rd</sup> 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:

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where:

- x the first digit:
  - 1 presented to TSG for information;
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  - 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.

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## Introduction

The present document is part 3 of a multi-parts TS:

3GPP TS 36.521-1 [10]: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception; Part 1: Conformance Testing.

3GPP TS 36.521-2 [23]: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS).

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

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# 1 Scope

The present document specifies the measurement procedures for the conformance test of the user equipment (UE) that contain requirements for support of RRM (Radio Resource Management) as part of the 3G Long Term Evolution (3G LTE).

The requirements are listed in different clauses only if the corresponding parameters deviate. More generally, tests are only applicable to those mobiles that are intended to support the appropriate functionality. To indicate the circumstances in which tests apply, this is noted in the “*test applicability*” part of the test.

For example only Release 8 and later UE declared to support LTE shall be tested for this functionality. In the event that for some tests different conditions apply for different releases, this is indicated within the text of the test itself.

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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.
- 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] to [31] (void)

- [32] 3GPP TS 36.521-3 Release 16: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing"

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# 3 Definitions, symbols and abbreviations

Void

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## 3A Requirements for support of RRM

### 3A.1 General

The requirements of the present document are provided in 3GPP TS 36.521-3 Release 16 [32].

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## 4 to 12 Void

## Annex A to J: Void

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## Annex K (informative): Change history

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<https://standards.iteh.ai/catalog/standards/sist/1d6d8abb-fbe3-44b2-8247-65b9e5137b85/etsi-ts-136-521-3-v15.6.0-2020-04>



Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2008-06	RAN5#39bis	R5-082129			R5-082129: Restructure of TS 36.521-1 and RRM proposal (Split of RRM from 36.521-1 v0.2.0 in its own specification 36.521-3 v0.1.0)		0.1.0
2008-06	RAN5#39bis	R5-082174			Following approved TPs have been included: R5-082129: Restructure of TS 36.521-1 and RRM proposal (Split of RRM from 36.521-1 v0.2.0 in its own specification 36.521-3 v0.1.0) R5-082160: Cover for LTE E-UTRAN RRC_IDLE State Mobility text proposal R5-082161: Cover for LTE E-UTRAN RRC_CONNECTED State Mobility text proposal R5-082162: Update of 36.521-1: Introduction of HRPD and CDMA2000 in RRM test cases R5-082163: Cover for LTE UE Transmit Timing Requirements text proposal Editorial changes for Annexes	0.1.0	0.2.0
2008-08	RAN5#40	R5-083164			Following approved TPs have been included: R5-083051: LTE E-UTRAN RRC_IDLE State Mobility text proposal R5-083052: LTE E-UTRAN RRC_CONNECTED State Mobility text proposal R5-083053: LTE UE Transmit Timing Requirements text proposal R5-083054: LTE UE Measurement Procedures text proposal R5-083813: LTE UE Measurement Performance Requirements text proposal R5-083138: Text proposal for LTE E-UTRAN Cell Re-selection to HRPD or to cdma2000 1xRTT in TS 36.521-3 R5-083056: RRC Connection Mobility Control text proposal R5-083164: LTE-RF 36-521-3 after RAN5#40 Editorial restructuring to section 4	0.2.0	0.3.0
2008-10	RAN5#40Bis	R5-084073			Following approved TPs have been included: R5-084073: TS 36.521-3 after RAN5#40Bis R5-084079: LTE Cell Re-Selection text proposal R5-084322: LTE FDD/FDD Handover for intra/inter frequency text proposal	0.3.0	0.4.0
2008-11	RAN5#41	R5-085084			Following approved TPs have been included: R5-085084 LTE-RF: TS 36.521-3 after RAN5#41 R5-085718 LTE RRM Cell Re-Selection text proposal R5-085719 LTE RRM FDD/FDD Handover for intra/inter frequency text proposal R5-085720 E-UTRAN FDD intra-frequency measurements text proposal R5-085740 RSRQ Accuracy Measurement Performance Requirements text proposal R5-085722 Text Proposal for Cell Configuration mapping annex in 36.521-3 Editor's cleanup	0.4.0	0.5.0
2009-01	RAN5#41Bis	R5-086067			Following approved TPs have been included: R5-086067 LTE-RF: TS 36.521-3 after RAN5#41Bis R5-086149 References to connection diagrams R5-086418 LTE RRM Cell Re-Selection text proposal R5-086095 Cell configuration reference correction for RRM tests in 36.521-3 section 3A.3 R5-086419 LTE RRM FDD/FDD Handover for intra/inter frequency text proposal R5-086420 E-UTRAN FDD intra-frequency measurements text proposal R5-086431 RSRQ Accuracy Measurement Performance Requirements text proposal R5-086082 LTE UE Transmit Timing Requirements text proposal R5-086422 Text proposal for RSRP measurement accuracy test cases R5-086432 E-UTRAN FDD- FDD Inter-Frequency Measurements text proposal R5-086142 Measurement Reference Channels and OCNF for RRM testing R5-086150 Statistical testing in RRM tests Editor's cleanup	0.5.0	0.6.0

2009-03	RAN5#42	R5-090191		<p>Following approved TPs have been included:</p> <p>R5-091026 TDD Intra frequency RSRQ Accuracy</p> <p>R5-091085 TDD Inter frequency RSRQ Accuracy</p> <p>R5-091035 LTE RRM FDD/FDD Handover for intra/inter frequency text proposal</p> <p>R5-091047 E-UTRAN FDD intra-frequency measurements text proposal</p> <p>R5-091029 RSTQ Accuracy Measurement Performance Requirements text proposal</p> <p>R5-091041 LTE RRM E-UTRA FDD to GSM Cell Re-Selection text proposal</p> <p>R5-091040 LTE RRM E-UTRA FDD to GSM Handover text proposal</p> <p>R5-090182 LTE UE Measurement Procedures Structure text proposal</p> <p>R5-091048 LTE RRM E-UTRA FDD to UTRA FDD Cell Search text proposal</p> <p>R5-090184 LTE UE inter-RAT Handover Structure text proposal</p> <p>R5-091039 LTE RRM E-UTRA FDD to UTRA FDD Handover text proposal</p> <p>R5-091053 LTE UE Transmit Timing Requirements text proposal</p> <p>R5-090191 LTE-RF: TS 36.521-3 after RAN5#42</p> <p>R5-091091 Intra-frequency cell search TDD</p> <p>R5-091088 Intra-frequency Absolute RSRP measurement accuracy TDD</p> <p>R5-091090 Intra-frequency Relative RSRP measurement accuracy TDD</p> <p>R5-091089 Inter-frequency RSRP absolute accuracy TDD</p> <p>R5-091087 Inter-frequency RSRP relative accuracy TDD</p> <p>R5-091028 Text Proposal for RSRP Measurement Accuracy test cases</p> <p>R5-091076 Text Proposal for Annex C of TS 36.521-3</p> <p>R5-091051 TP of E-UTRAN TDD &amp; GSM cell re-selection test case</p> <p>R5-091043 TP of E-UTRAN TDD &amp; TDD inter frequency cell re-selection test case</p> <p>R5-091036 TP of E-UTRAN TDD &amp; TDD inter frequency handover test case</p> <p>R5-091044 TP of E-UTRAN TDD - TDD intra frequency cell re-selection test case</p> <p>R5-091038 TP of E-UTRAN TDD &amp; TDD intra frequency handover test case</p> <p>R5-091045 TP of E-UTRAN TDD &amp; UTRAN TDD cell re-selection test case</p> <p>R5-091049 E-UTRAN FDD- FDD Inter-Frequency Measurements text proposal</p> <p>R5-091050 E-UTRAN TDD- TDD Inter-Frequency Measurements text proposal</p> <p>R5-091052 LTE-RF: Update to 36.521-3 Annex E Cell Configuration mapping</p> <p>R5-091064 Correction to frequencies to be tested in RRM test cases</p> <p>R5-091042 LTE RRM Cell Re-Selection text proposal</p> <p>Editor's cleanup</p>	0.6.0	1.0.0
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2009-03	RAN5#42Bis			<p>R5-091263 LTE-RRM Cell Re-Selection text proposal                  R5-091922 LTE-RRM E-UTRA FDD to GSM Cell Re-Selection text proposal                  R5-091923 LTE-RRM E-UTRA FDD - UTRA TDD Cell Re-Selection text proposal                  R5-091924 TP of E-UTRA TDD - GSM cell reselection                  R5-091945 TP of E-UTRA TDD-UTRAN TDD cell reselection : UTRA is of higher priority                  R5-091926 TP of E-UTRA TDD - UTRA TDD cell reselection: UTRA is of lower priority test case                  R5-091264 LTE-RRM FDD/FDD Handover for intra/inter frequency text proposal                  R5-091931 LTE-RRM E-UTRA FDD to GSM Handover text proposal                  R5-091928 LTE-RRM E-UTRA FDD to UTRA FDD Handover text proposal                  R5-091946 LTE-RRM: E-UTRA TDD to UTRA FDD Handover text proposal                  R5-091947 LTE-RRM: Handover test proposal                  R5-091930 TP of E-UTRA TDD to UTRA TDD handover test case                  R5-091265 LTE-RRM E-UTRAN FDD intra-frequency measurements text proposal                  R5-091266 LTE-RRM RSRQ Accuracy Measurement Performance Requirements text proposal                  R5-091932 LTE-RRM E-UTRA FDD to UTRA FDD Cell Search (fading) text proposal                  R5-091933 LTE-RRM E-UTRAN FDD &amp; UE Transmit Timing Accuracy text proposal                  R5-091276 LTE-RRM E-UTRAN FDD &amp; UE Timing Advance Adjustment Accuracy text proposal                  R5-091934 LTE-RRM: E-UTRA TDD to UTRA FDD Cell Search (fading) text proposal                  R5-091935 LTE-RRM E-UTRAN TDD &amp; UE Transmit Timing Accuracy text proposal                  R5-091936 LTE-RRM E-UTRAN TDD &amp; UE Timing Advance Adjustment Accuracy text proposal                  R5-091937 LTE-RRM E-UTRA FDD to UTRA TDD Cell Search (fading) text proposal                  R5-091381 EUTRAN TDD to UTRAN TDD cell search (fading)                  R5-091386 LTE RRM TDD Inter Frequency RSRP Accuracy text proposal                  R5-091398 Text Proposal for RSRP Measurement Accuracy test cases                  R5-091948 LTE-RRM: Measurements test proposal                  R5-091431 RRM-EUTRAN FDD RLM test for out-of-sync                  R5-091434 RRM-EUTRAN TDD RLM test for out-of-sync                  R5-091435 RRM-EUTRAN FDD RLM test for In-sync                  R5-091436 RRM-EUTRAN TDD RLM test for In-sync                  R5-091468 RRM E-UTRAN FDD-FDD Inter-frequency Measurements                  R5-091469 RRM E-UTRAN TDD-TDD Inter-frequency Measurements                  R5-091939 LTE-RRM cell configuration mapping updates                  R5-091407 Update of statistical requirements to 36.521-3 Editor's cleanup</p>	1.0.0	1.1.0
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2009-05	RAN#43	R5-092156			R5-092156 LTE-RF: TS 36.521-3 after RAN#43 R5-092066 E-UTRAN FDD- FDD Inter-Frequency Measurements text proposal R5-092617 RRM E-UTRAN TDD-TDD Inter-frequency Measurement R5-092068 RRM-EUTRAN FDD RLM test for out-of-synch and in-synch R5-092069 RRM-EUTRAN TDD RLM test for out-of-synch and in-synch R5-092071 Reference measurement Channels for Radio Link Monitoring Tests with 2 Antennas R5-092127 Update of statistical requirements to 36.521-3 R5-092630 LTE RRM: 1→2 RX antenna R5-092618 Text Proposal for E-UTRAN FDD-UTRAN FDD cell re-selection test cases R5-092651 Text Proposal for E-UTRAN FDD - GSM Measurements test case R5-092620 LTE-RRM E-UTRA TDD to GSM event triggered reporting in AWGN text proposal R5-092360 LTE RRM TDD Inter Frequency RSRP Accuracy text proposal R5-092621 LTE-RRM Default Message Contents for support of RRM text proposal R5-092384 LTE-RRM Update of Message Contents for E-UTRAN FDD RRM tests to align with support of RRM text proposal R5-092622 LTE-RRM E-UTRAN FDD Cell Re-Selection text proposal R5-092386 LTE-RRM FDD Inter Frequency RSRQ Accuracy Measurement Performance Requirements text proposal R5-092387 LTE-RRM E-UTRA FDD to GSM Cell Re-Selection text proposal R5-092623 LTE-RRM E-UTRAN FDD intra frequency cell search (fading) in long DRX text proposal R5-092624 LTE-RRM E-UTRAN FDD intra frequency cell search (fading) in short DRX text proposal R5-092390 LTE-RRM E-UTRAN FDD - UE Transmit Timing Accuracy text proposal R5-092626 LTE-RRM E-UTRAN FDD random access: contention based scenario text proposal R5-092627 LTE-RRM E-UTRAN FDD random access: non-contention based scenario text proposal R5-092628 LTE-RRM E-UTRA FDD to HRPD Handover text proposal R5-092629 LTE-RRM E-UTRA FDD to cdma2000 1xRTT Handover text proposal R5-092443 Addition of band 18 and 19 to LTE RRM test cases Editor's cleanup	1.1.0	2.0.0
2009-05	RAN#44	-	-	-	Updated to v8.0.0 after RAN#44 with no technical change.	2.0.0	8.0.0
2009-06	-	-	-	-	Editorial clean up	8.0.0	8.0.1
2009-09	RAN#45	R5-094036	0001	-	Correction CR to 36.521-3: Update of Requirements for E-UTRAN (FDD) cell re-selection tests	8.0.1	8.1.0
2009-09	RAN#45	R5-094037	0002	-	Correction CR to 36.521-3: Update of Requirements for E-UTRAN FDD - FDD Inter Frequency Handover test	8.0.1	8.1.0
2009-09	RAN#45	R5-094038	0003	-	Correction CR to 36.521-3: Update of Requirements for E-UTRAN FDD - FDD Intra Frequency Cell Search test	8.0.1	8.1.0
2009-09	RAN#45	R5-094039	0004	-	Correction CR to 36.521-3: Update of Requirements for E-UTRAN FDD - UE transmit timing accuracy test	8.0.1	8.1.0
2009-09	RAN#45	R5-094040	0005	-	Correction CR to 36.521-3: Update of Requirements for E-UTRAN FDD - GSM cell re-selection test	8.0.1	8.1.0
2009-09	RAN#45	R5-094041	0006	-	Correction CR to 36.521-3: Update of Requirements conditions for E-UTRAN FDD - UE timing advance adjustment accuracy test	8.0.1	8.1.0
2009-09	RAN#45	R5-094042	0007	-	Correction CR to 36.521-3: Update of Requirements for E-UTRAN FDD - GSM Handover test	8.0.1	8.1.0
2009-09	RAN#45	R5-094043	0008	-	Correction CR to 36.521-3: Update of Requirements for E-UTRAN FDD - UTRAN FDD Handover test	8.0.1	8.1.0
2009-09	RAN#45	R5-094045	0009	-	Correction CR to 36.521-3: Update of Requirements for E-UTRAN FDD - GSM Cell Search test	8.0.1	8.1.0
2009-09	RAN#45	R5-094047	0010	-	Correction CR to 36.521-3: Update of Requirements for E-UTRAN FDD - Contention Based Random Access test	8.0.1	8.1.0
2009-09	RAN#45	R5-094048	0011	-	Correction CR to 36.521-3: Update of Requirements for E-UTRAN FDD - Non-Contention Based Random Access test	8.0.1	8.1.0

2009-09	RAN#45	R5-094049	0012	-	Addition of test scenario CR to 36.521-3: E-UTRAN FDD-FDD Inter-frequency cell search when DRX is used under fading propagation conditions	8.0.1	8.1.0
2009-09	RAN#45	R5-094050	0013	-	Correction CR to 36.521-3: Update of E-UTRAN FDD-FDD Intra-frequency cell search when DRX is used under fading propagation conditions	8.0.1	8.1.0
2009-09	RAN#45	R5-094051	0014	-	Correction CR to 36.521-3: Update of Annex H Default Message Contents for support of RRM	8.0.1	8.1.0
2009-09	RAN#45	R5-094217	0015	-	Update for E-UTRA FDD - UTRA TDD cell reselection	8.0.1	8.1.0
2009-09	RAN#45	R5-094218	0016	-	Test proposal for E-UTRA FDD - UTRA TDD HO	8.0.1	8.1.0
2009-09	RAN#45	R5-094219	0017	-	Test proposal for E-UTRA TDD random access: contention based scenario	8.0.1	8.1.0
2009-09	RAN#45	R5-094220	0018	-	Test proposal for E-UTRA TDD random access: non-contention based scenario	8.0.1	8.1.0
2009-09	RAN#45	R5-094221	0019	-	Update for TDD Intra-frequency RSRQ measurement accuracy	8.0.1	8.1.0
2009-09	RAN#45	R5-094222	0020	-	Update for TDD Inter-frequency RSRQ measurement accuracy	8.0.1	8.1.0
2009-09	RAN#45	R5-094223	0021	-	Update for E-UTRAN TDD Transmit timing accuracy	8.0.1	8.1.0
2009-09	RAN#45	R5-094225	0022	-	Update for E-UTRA FDD - UTRA TDD cell search(fading)	8.0.1	8.1.0
2009-09	RAN#45	R5-094253	0023	-	CR to 36.521-3: Addition of E-UTRAN FDD Intra-frequency RRC Re-establishment	8.0.1	8.1.0
2009-09	RAN#45	R5-094254	0024	-	CR to 36.521-3: Addition of E-UTRAN FDD Inter-frequency RRC Re-establishment	8.0.1	8.1.0
2009-09	RAN#45	R5-094285	0025	-	LTE-RRM: Introduction of Common Exception messages table for E-UTRAN TDD-UTRAN FDD handover and E-UTRAN TDD-UTRAN FDD measurements	8.0.1	8.1.0
2009-09	RAN#45	R5-094358	0026	-	Correction to RSRP measurement accuracy test cases	8.0.1	8.1.0
2009-09	RAN#45	R5-094442	0027	-	CR to 36.521-3: Update of E-UTRA FDD to HRPD Handover and E-UTRA FDD to cdma2000 1xRTT Handover test cases	8.0.1	8.1.0
2009-09	RAN#45	R5-094709	0028	-	LTE-RRM: Correction to test cases 4.4.1 and 4.4.2	8.0.1	8.1.0
2009-09	RAN#45	R5-094713	0029	-	Resubmission - Update to E-UTRAN to HRPD Cell Re-Selection (HRPD is of lower priority) test case	8.0.1	8.1.0
2009-09	RAN#45	R5-094720	0030	-	Resubmission - Update to E-UTRAN to CDMA2000 1xRTT Cell Re-Selection (CDMA2000 1xRTT is of lower priority) test case	8.0.1	8.1.0
2009-09	RAN#45	R5-094743	0031	-	RRM TCs in test mode	8.0.1	8.1.0
2009-09	RAN#45	R5-094927	0032	-	Correction CR to 36.521-3: Update of inter-frequency E-UTRAN TDD-TDD cell re-selection 4.2.6	8.0.1	8.1.0
2009-09	RAN#45	R5-094928	0033	-	Correction CR to 36.521-3: Update of E-UTRAN TDD - UTRAN TDD cell re-selection 4.3.4	8.0.1	8.1.0
2009-09	RAN#45	R5-094929	0034	-	Correction CR to 36.521-3: Update of Requirements for E-UTRAN FDD - UTRAN FDD cell re-selection test	8.0.1	8.1.0
2009-09	RAN#45	R5-094930	0035	-	LTE-RRM: Addition of common messages to Annex H	8.0.1	8.1.0
2009-09	RAN#45	R5-094931	0036	-	Test Proposal for E-UTRAN TDD Intra-frequency RRC Re-establishment	8.0.1	8.1.0
2009-09	RAN#45	R5-094932	0037	-	Test Proposal for E-UTRAN TDD Inter-frequency RRC Re-establishment	8.0.1	8.1.0
2009-09	RAN#45	R5-094933	0038	-	Update for E-UTRAN TDD Timing advanced adjustment accuracy	8.0.1	8.1.0
2009-09	RAN#45	R5-094934	0039	-	Correction CR to 36.521-3: Update of Requirements for E-UTRAN FDD - UTRAN FDD Cell Search test	8.0.1	8.1.0
2009-09	RAN#45	R5-094935	0040	-	E-UTRA TDD - TDD Intra frequency cell search with DRX	8.0.1	8.1.0
2009-09	RAN#45	R5-094936	0041	-	TDD - TDD RSRP measurement	8.0.1	8.1.0
2009-09	RAN#45	R5-094937	0042	-	Update 8.10.1 E-UTRAN TDD-GSM event triggered reporting in AWGN	8.0.1	8.1.0
2009-09	RAN#45	R5-094938	0043	-	Add new tc 8.10.2 EUTRAN TDD-GSM cell search with DRX	8.0.1	8.1.0
2009-09	RAN#45	R5-094939	0044	-	Add new tc 8.7.2 EUTRAN TDD - UTRAN TDD cell search with DRX	8.0.1	8.1.0
2009-09	RAN#45	R5-094940	0045	-	E-UTRA TDD - TDD Inter frequency cell search with DRX	8.0.1	8.1.0
2009-09	RAN#45	R5-094942	0046	-	Update to Annex E Cell Configuration Mapping	8.0.1	8.1.0
2009-09	RAN#45	R5-094967	0047	-	RRM Radio Link Monitoring FDD update	8.0.1	8.1.0
2009-09	RAN#45	R5-094968	0048	-	RRM Radio Link Monitoring TDD update	8.0.1	8.1.0
2009-09	RAN#45	R5-094969	0050	-	RRM: E-UTRAN FDD - UTRAN FDD SON ANR cell search reporting	8.0.1	8.1.0
2009-09	RAN#45	R5-094970	0051	-	CR to 36.521-3:Message updates for RSRP and RSRQ Accuracy measurement	8.0.1	8.1.0
2009-09	RAN#45	R5-094971	0052	-	RRM OCNG and RMC update	8.0.1	8.1.0
2009-09	RAN#45	R5-094972	0053	-	RRM: Update of Annex E for SON	8.0.1	8.1.0
2009-12	RAN#46	R5-095492	0054	-	Removal of test state 4 in RRM test cases	8.1.0	8.2.0
2009-12	RAN#46	R5-095493	0055	-	CR to 36.521-3 Annexes of E-UTRAN cell reselection test cases	8.1.0	8.2.0