# ETSI TS 136 521-2 V9.9.0 (2012-11)



## LTE;

Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS) (3GPP TS 36.521-2 version 9.9.0 Release 9)



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Reference

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Keywords

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#### **ETSI**

#### 650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

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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:

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

#### Introduction

The present document is part 2 of a multi-parts TS:

3GPP TS 36.521-1 [1]: 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: 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 [2]: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 3: Radio Resource Management (RRM) Conformance Testing.

### 1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 3G Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE), in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4]

The present document specifies the recommended applicability statement for the test cases included in 3GPP TS 36.521-1 [1] and 3GPP TS 36.521-3 [2]. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in 3GPP TS 36.509 [5] and the common test environments are included in 3GPP TS 36.508 [6].

The present document is valid for UE implemented according to 3GPP releases starting from Release 8 up to the Release indicated on the cover page of the present document.

### 2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TS 36.521-1: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 1: Conformance testing ".
- [2] 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 Conformance Testing ".
- [3] ISO/IEC 9646-1: "Information technology Open systems interconnection Conformance testing methodology and framework Part 1: General concepts".
- [4] ISO/IEC 9646-7: "Information technology Open systems interconnection Conformance testing methodology and framework Part 7: Implementation Conformance Statements".
- [5] 3GPP TS 36.509: "Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing functions for User Equipment ".
- [6] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA); Common Test Environments for User Equipment (UE) Conformance Testing".
- [7] to [16] (void)
- [17] 3GPP TS 36.521-2 Release 10: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)".

### 3 Definitions, symbols and abbreviations

Void

# 4 Recommended test case applicability

The requirements of the present document are provided in 3GPP TS 36.521-2 Release 10 [17].

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# Annex A: Void

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# Annex B (informative): Change history

2000 00	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2008-03					Skeleton proposed for RAN5#38 Malaga		0.0.1
2008-06					Updated after RAN5#39bis:	0.0.1	0.1.0
					- Editorial update and alignment with 36.523-2		
					- TC included in 36.521-1 and 36.521-3 included		
2008-08	-				- Some Conditions for TC selections introduce Updated after RAN5#40:	0.1.1	0.2.0
2008-08					- Editorial update in regard to changing spec names, etc.	0.1.1	0.2.0
					- FDD and TDD split (R5-083839)		
					- RRM TC numbers aligned with 36.521-3 v030		
2008-10					Update after RAN5#40bis:	0.2.0	0.3.0
					- Table split in different clauses for Conformance and RRM		
					test cases		
					- Extension of applicability tables to include Additional		
					information column		
					- Change of applicability of TCs that apply to any E-UTRA device into "R" - recommended		
					- Updated TCs in accordance to 36.521-1 v110 and 36.521-3		
					v040		
					- Some editorial updates		
2008-11					Update After RAN5#41 (R5-055360):	0.3.0	2.0.0
					- Renamed 8.1.1, added new 8.1.2,		
					- Added new TCs to RRM section Measurement		
					Performance Requirements - Added Table A.4.3-2 with reference to test loop functions in		
					36.509		
					- Some editorial changes		
					- Normative References updated		
					- Change RRM TC titles to reflect their applicability to FDD		
					only		
2008-12	RAN#42	RP-080970			Approval of version 2.0.0 at RAN#42, then put to version	2.0.0	8.0.0
2000.04				-	8.0.0.	0.0.0	0.0.1
2008-01 2009-05	RAN#44	RP-090448	0001	-	Editorial corrections. CR to 36.521-2: Applicability changes and additions for RRM	8.0.0	8.0.1 8.1.0
2009-05	KAN#44	KF-090440	0001		test cases	0.0.1	0.1.0
2009-05	RAN#44	RP-090448	0002			8.0.1	8.1.0
2009-09	RAN#45	R5-094035	0003	-	Correction CR to 36.521-2: Applicability changes to	8.1.0	8.2.0
	-				introduce additional RRM tests		
2009-09	RAN#45	R5-094572	0004	-	Applicability for Output Power Dynamics test cases	8.1.0	8.2.0
2009-09	RAN#45	R5-094710	0005	-	Resubmission-Correction CR to 36.521-2: Applicability	8.1.0	8.2.0
	5.411// 45	<b>D</b> = 00 ( <b>T</b> 00			changes to introduce additional RRM tests		
2009-09	RAN#45	R5-094768	0006	-	Update of RRM Conformance test applicability for SON	8.1.0	8.2.0
2009-09	RAN#45	R5-094999	0007	-	Correction CR to 36.521-2: Applicability changes to RF PDSCH Demodulation tests	8.1.0	8.2.0
2009-12	RAN#46	R5-095519	0008		Correction CR to 36.521-2: Applicability changes to update	8.2.0	8.3.0
2009-12	KAN#40	K3-095519	0008		the Demodulation of PDSCH (FDD) tests based on the CR	0.2.0	0.3.0
					merge results from RAN5#44		
2009-12	RAN#46	R5-095778	0009		0	8.2.0	8.3.0
					DRX test cases		
2009-12	RAN#46	R5-095841	0010	-	CR to 36.521-2: Applicability additions for new RRM (FDD)	8.2.0	8.3.0
					tests		
2010-03	RAN#47	R5-100358	0011	-	CR to 36.521-2 Rel-8 Introduction of Applicability for E-	8.3.0	8.4.0
					UTRAN FDD - FDD Intra Frequency Cell Search with DRX		
2010-03	RAN#47	R5-100561	0012	1_	when L3 filtering is used CR to 36.521-2: Update baseline implementation capabilities	830	8.4.0
2010-03	NAN#47	K3-100301	0012	-	with extended LTE1500 operating bands	0.3.0	0.4.0
2010-03	RAN#47	R5-100872	0013	-	CSI: Following up corrections to tests titles and RI clause	8.3.0	8.4.0
					structure		
2010-03	RAN#47	-		-	Moved to v9.0.0 with no change	8.4.0	9.0.0
2010-06	RAN#48	R5-103147	0014	-	Adding band 20, 800MHZ in EU to TS36.521-2	9.0.0	9.1.0
2010-06	RAN#48	R5-103757	0015	-	Introduction of feature group indicator in applicability for	9.0.0	9.1.0
	<b>B</b> 4 M 1 ··· · ·				RRM test cases		
2010-09	RAN#49	R5-104246	0017	-	CR to 36.521-2 on Correction to cell search	9.1.0	9.2.0
2010-09	RAN#49	R5-104264	0018	-	Addition of applicability for new RRM test cases	9.1.0	9.2.0
2010.00	RAN#49	R5-104372	0019	-	Update of Applicability for Demodulation test cases and UE	9.1.0	9.2.0
	IXAN#49	R0-104372	0019	1-	implementation Types for UTRA TDD	9.1.0	9.2.0
2010-09							
2010-09	RAN#49	R5-104840	0020	-	36521-2 General update to add-remove TCs applicability	9.1.0	9.2.0

Date	TSG #	TSG Doc.	CR	Rev		Old	New
2010-09	RAN#49	R5-105056	0021	-	Applicability of a new Rel-9 downlink sustained data rate	9.1.0	9.2.0
					performance test cases		
2010-12	RAN#50	R5-106118	0022	-	CR to 36.521-2: Update baseline implementation capabilities	9.2.0	9.3.0
					for EUTRA TDD LTE band 41		
2011-03	RAN#51	R5-110536	0023	-	Defining new bands 42 and 43 (3500MHz)	9.3.0	9.4.0
2011-03	RAN#51	R5-110955	0024	-	CR to 36.521-2: General update to add, remove, and correct	9.3.0	9.4.0
					applicability of RRM TCs		
2011-06	RAN#52	R5-112131	0025	-	Correction to Band 12 frequency range in 36.521-2	9.4.0	9.5.0
2011-06	RAN#52	R5-112212	0026	-	Adding Band 24 to TS 36.521-2	9.4.0	9.5.0
2011-06	RAN#52	R5-112378	0027	-	Update of FGI bit definitions for rel-9	9.4.0	9.5.0
2011-06	RAN#52	R5-112821	0028	-	Add release applicability for spatial multiplexing test cases	9.4.0	9.5.0
2011-06	RAN#52	R5-112857	0029	-	Addition of applicability for new RRM test cases 4.3.4.3 and 8.4.3	9.4.0	9.5.0
2011-06	RAN#52	R5-112865	0030	-	Addition of applicability for new MBMS test cases 10.1 and 10.2	9.4.0	9.5.0
2011-09	RAN#53	R5-113306	0031	-	Adding band 25 to TS36.521-2	9.5.0	9.6.0
2011-09	RAN#53	R5-113625	0033	-	Introduction of applicability of Rel-9 Scenarios	9.5.0	9.6.0
2011-09	RAN#53				Introduction of applicability of PDSCH performance tests for	9.5.0	9.6.0
		R5-113626	0034	-	low UE categories		
2011-09	RAN#53	R5-114025	0035	-	Test Cases 6.2.3 and 6.2.4 Applicability Clarification	9.5.0	9.6.0
2011-09	RAN#53				Update baseline implementation capabilities for FDD LTE	9.5.0	9.6.0
		R5-114070	0036	-	Band 23 in 36.521-2		
2011-09	RAN#53	R5-114074	0037	-	Applicability for new R9 RRM test cases	9.5.0	9.6.0
2011-09	RAN#53	R5-114096	0038	-	Missing FGIs in RRM Test Case Applicabilities in 36.521-2	9.5.0	9.6.0
2011-12	RAN#54	R5-115128	0039	-	Correction the content of A.4.4-1_16 in 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115134	0040	-	Correction to the test case condition of C12 in 3GPP TS 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115186	0041	-	Adding band 22 (3500MHz FDD) to 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115785	0042	-	Requirement change in UE spurious emissions for Band 7	9.6.0	9.7.0
-	_				and 38 co-existence (Rel-8 only)		
2011-12	RAN#54	R5-115422	0043	-	Update of FGI bit table in 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115813	0044	-	RF: Update of the applicability list	9.6.0	9.7.0
2012-03	RAN#55	R5-120081	0045	-	Removal of technical content in 36.521-2 v9.7.0 and	9.7.0	9.8.0
					substitution with pointer to the next Release		
2012-09	RAN#57	R5-123533	0066		Update of References in 36.521-2 v980 (pointer)	9.8.0	9.9.0

# History

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V9.7.0	January 2012	Publication			
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V9.9.0	November 2012	Publication			