ETSI TS 136 521-2 V10.0.0 (2012-01)



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 10.0.0 Release 10)



Reference RTS/TSGR-0536521-2va00 Keywords LTE

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Foreword

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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 LIF.

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

[10]

[11]

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.

the physical layer for E-UTRA".

Control (MAC) protocol specification".

- 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.
 - For a Release 8 UE, references to 3GPP documents are to version 8.x.y, when available.

Editor's Note: The Reference list is incomplete and some references are still to UMTS specs.

[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".
[8]	3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
[9]	3GPP TS 36.201: " LTE Physical Layer - General Description"

3GPP TS 36.302: " Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by

3GPP TS 36.321: "Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access

[12]	3GPP TS 36.322: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification".
[13]	3GPP TS 36.323: "Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification".
[14]	3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC) Protocol Specification".
[15]	3GPP TS 24.301: "Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3"
[16]	3GPP TS 36.307: "Requirements on User Equipments (UEs) Supporting a release-independent frequency band".

3 Definitions, symbols and abbreviations

For the purposes of the present document, the following terms, definitions, symbols and abbreviations apply:

- such given in TR 21.905 [8]
- such given in ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4]

NOTE: Some terms and abbreviations defined in [3] and [4] are explicitly included below with small modification to reflect the terminology used in 3GPP.

3.1 Definitions

Implementation Conformance Statement (ICS): statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented

ICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS

Implementation eXtra Information for Testing (IXIT): A statement made by a supplier or implementer of an UEUT which contains or references all of the information (in addition to that given in the ICS) related to the UEUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the UEUT

IXIT proforma: A document, in the form of a questionnaire, which when completed for an UEUT becomes an IXIT

Protocol Implementation Conformance Statement (PICS): An ICS for an implementation or system claimed to conform to a given protocol specification

Protocol Implementation eXtra Information for Testing (PIXIT): An IXIT related to testing for conformance to a given protocol specification

static conformance review: A review of the extent to which the static conformance requirements are claimed to be supported by the UEUT, by comparing the answers in the ICS(s) with the static conformance requirements expressed in the relevant specification(s)

3.2 Symbols

No specific symbols have been identified so far.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [8].

For the purposes of the present document, the following abbreviations apply:

ICSImplementation Conformance StatementIXITImplementation eXtra Information for TestingPICSProtocol Implementation Conformance StatementPIXITProtocol Implementation eXtra Information for Testing

RRM Radio Resource Management SCS System Conformance Statement

TC Test Case

UEUT User Equipment Under Test

4 Recommended test case applicability

The applicability of each individual test is identified in the tables 4.1-1 or 4.2-1. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of the present document.

Additional information related to the Test Case (TC), e.g. affecting its dynamic behaviour or its execution may be provided as well

The columns in tables 4.1-1 / 4.2-1 have the following meaning:

Clause

The clause column indicates the clause number in TS 36.521-1 [1] or respectively TS 36.521-3 [2] that contains the test body.

Title

The title column describes the name of the test and contains the clause title of the clause in TS 36.521-1 [1] or TS 36.521-3 [2] that contains the test body.

Release

The release column indicates the earliest release from which each test case is applicable.

Applicability - Condition

The following notations are used for the applicability column:

R recommended - the test case is recommended to all terminals supporting E-UTRA

O optional – the test case is optional

N/A not applicable - in the given context, the test case is not recommended.

Ci conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

Applicability - Comments

This comments column contains a verbal description of the condition included in the applicability column.

Additional Information

This column contains indication if the test case may perform differently depending on the UE capabilities.

NOTE To meet the validation requirements from certification bodies then there is a need to uniquely reference the FDD and TDD branch (i.e. different behaviour within one and the same TC) of common FDD and TDD test cases. The FDD and TDD branches of common FDD and TDD test cases can be referenced by amending a "FDD" or "TDD" suffix to the test case clause number. For example for test case 6.2.2 the FDD and TDD branches can be identified by "6.2.2 FDD" and "6.2.2 TDD".

4.1 RF conformance test cases

Table 4.1-1: Applicability of RF conformance test cases, ref. TS 36.521-1 [1]

Clause	Title	Release		Additional Information	
			Condition	Comments	
	r Characteristics				
6.2.2	UE Maximum Output Power	Rel-8	R	UE supporting E-UTRA	FDD
	·				TDD
6.2.3	Maximum Power Reduction (MPR)	Rel-8	N/A	UE supporting E-UTRA, The minimum requirement tested in 6.2.3 is covered by test case 6.6.2.3.	FDD
0.0.4	Additional Marianas Davis	D-10	NI/A	LIE	TDD
6.2.4	Additional Maximum Power Reduction (A-MPR)	Rel-8	N/A	UE supporting E-UTRA. The minimum requirement tested in 6.2.4 is covered by test case 6.6.2.2 or 6.6.3.3 according to the supported NS value.	FDD
	0 " 1115				TDD
6.2.5	Configured UE transmitted Output Power	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.1	Void	<u> </u>			
6.3.2	Minimum Output Power	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.3	Transmit OFF Power	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.4.1	General ON/OFF time mask	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.4.2.1	PRACH time mask	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.4.2.2	SRS time mask	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.5.1	Power Control Absolute Power Tolerance	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.3.5.2	Power Control Relative Power Tolerance	Rel-8	R	UE supporting E-UTRA	FDD TDD
6.3.5.3	Aggregate Power Control	Rel-8	R	UE supporting E-UTRA	FDD
0.3.5.3	Tolerance	Kei-8	ĸ	OE supporting E-OTRA	
0.5.4	Гиания в г. Гинан	Dalo		LIC accompanies of LICDA	TDD
6.5.1	Frequency Error	Rel-8	R	UE supporting E-UTRA	FDD
0.5.0.4	Frank Vester Messale (F) (A)	Delo		LIE avenantina E LEDA	TDD
6.5.2.1	Error Vector Magnitude (EVM)	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.5.2.1A	PUSCH-EVM with exclusion period	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.5.2.2	Carrier leakage	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.5.2.3	In-band emissions for non allocated RB	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.5.2.4	EVM equalizer spectrum flatness	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
6.6.1	Occupied bandwidth	Rel-8	R	UE supporting E-UTRA	FDD
		_			TDD
6.6.2.1	Spectrum Emission Mask	Rel-8	R	UE supporting E-UTRA	FDD
		Ī		1	TDD

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
6.6.2.2	Additional Spectrum Emission Mask	Rel-8	R	UE supporting E-UTRA	FDD
0.000	A II	D 10			TDD
6.6.2.3	Adjacent Channel Leakage power Ratio	Rel-8	R	UE supporting E-UTRA	FDD TDD
6.6.2.4	Void				100
6.6.3.1	Transmitter Spurious emissions	Rel-8	R	UE supporting E-UTRA	FDD
0.0.0	Transmitter op an oad sinisoiene	. 10. 0			TDD
6.6.3.2	Spurious emission band UE co- existence	Rel-8 only	R	UE supporting E-UTRA	FDD
					TDD
6.6.3.2_1	Spurious emission band UE co- existence (Release 9 and forward)	Rel-9	R	UE supporting E-UTRA	FDD TDD
6.6.3.3	Additional spurious emissions	Rel-8	R	UE supporting E-UTRA	FDD
		-	-	3 - 2 - 1 - 1	TDD
6.7	Transmit intermodulation	Rel-8	R	UE supporting E-UTRA	FDD
					TDD
	Characteristics				1 ===
7.3	Reference sensitivity level	Rel-8	R	UE supporting E-UTRA	FDD
7.4	Maximum input laval	Rel-8	D	UE supporting E-UTRA	TDD
7.4	Maximum input level	Rel-8	R	UE supporting E-UTRA	FDD TDD
7.5	Adjacent Channel Selectivity	Rel-8	R	UE supporting E-UTRA	FDD
7.5	(ACS)	TCI 0	IX.	OL Supporting L OTTA	TDD
7.6.1	In-band blocking	Rel-8	R	UE supporting E-UTRA	FDD
	J				TDD
7.6.2	Out of-band blocking	Rel-8	R	UE supporting E-UTRA	FDD
			_		TDD
7.6.3	Narrow band blocking	Rel-8	R	UE supporting E-UTRA	FDD
	0	Dalo		LIE averagetica E LIEDA	TDD
7.7	Spurious response	Rel-8	R	UE supporting E-UTRA	FDD TDD
7.8.1	Wide band Intermodulation	Rel-8	R	UE supporting E-UTRA	FDD
7.0.1	Wide band intermodulation	IVEI-0	K	OL supporting E-OTKA	TDD
7.9	Spurious emissions	Rel-8	R	UE supporting E-UTRA	FDD
	·				TDD
Performan	nce Requirement				•
8.2.1.1.1	FDD PDSCH Single Antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	
8.2.1.1.1_1	FDD PDSCH Single Antenna	Rel-9	C01	UE supporting E-UTRA FDD	
	Port Performance (Release 9				
8.2.1.1.2	and forward) FDD PDSCH Single Antenna	Rel-8	C01	UE supporting E-UTRA FDD	
0.2.1.1.2	Port Performance with 1 PRB in presence of MBSFN	Kel-8	C01	OE Supporting E-OTRA FDD	
8.2.1.2.1	FDD PDSCH Transmit Diversity 2x2	Rel-8	C01	UE supporting E-UTRA FDD	
8.2.1.2.1_1		Rel-9	C01	UE supporting E-UTRA FDD	
8.2.1.2.2	FDD PDSCH Transmit Diversity 4x2	Rel-8	C01	UE supporting E-UTRA FDD	
8.2.1.2.2_1	4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.2.1.3.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2		C01	UE supporting E-UTRA FDD	
8.2.1.3.2	FDD PDSCH Open Loop Spatial Multiplexing 4x2		C01	UE supporting E-UTRA FDD	
8.2.1.4.1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.2.1.4.1_1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.2.1.4.2	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
8.2.1.4.2_1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.2.2.1	Void		000		
8.2.2.1.1	TDD PDSCH Single Antenna Port Performance	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.1.1_1	TDD PDSCH Single Antenna Port Performance (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.2.2.1.2	TDD PDSCH Single Antenna Port Performance with 1PRB in the presence of MBSFN	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.2	Void				
8.2.2.2.1	TDD PDSCH Transmit Diversity 2x2	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.2.1_1	TDD PDSCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.2.2.2.2	TDD PDSCH Transmit Diversity 4x2	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.2.2_1	TDD PDSCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.2.2.3	Void				
8.2.2.3.1	TDD PDSCH Open Loop Spatial Multiplexing 2x2		C02	UE supporting E-UTRA TDD	
8.2.2.3.2	TDD PDSCH Open Loop Spatial Multiplexing 4x2	Rel-8	C02	UE supporting E-UTRA TDD	
8.2.2.4	Void				
8.2.2.4.1	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2	Rel-8 only	C02	UE supporting E-UTRA TDD	
8.2.2.4.1_1	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.2.2.4.2	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	
8.2.2.4.2_1	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.3.1	Void		000		
8.3.2.1.1	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 5 (Release 8 and forward)	Rel-8	C02	UE supporting E-UTRA TDD	
8.3.2.1.1_1	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 5 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.3.2.1.2	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 7 or 8 without a simultaneous transmission	Rel-9	C02	UE supporting E-UTRA TDD	
8.3.2.1.3	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 7 or 8 with a simultaneous transmission	Rel-9	C02	UE supporting E-UTRA TDD	
8.3.2.2.1	TDD PDSCH Dual-layer Spatial Multiplexing	Rel-9	C02	UE supporting E-UTRA TDD	
8.4.1.1	FDD PCFICH/PDCCH Single- antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	
8.4.1.2	Void				
8.4.1.2.1	FDD PCFICH/PDCCH Transmit Diversity 2x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.4.1.2.1_1	FDD PCFICH/PDCCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.4.1.2.2	FDD PCFICH/PDCCH Transmit Diversity 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.4.1.2.2_1	FDD PCFICH/PDCCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.4.2.1	TDD PCFICH/PDCCH Single- antenna Port Performance	Rel-8	C02	UE supporting E-UTRA TDD	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
8.4.2.2	Void	Date	000	LIE companies E LIEDA TOD	
8.4.2.2.1	TDD PCFICH/PDCCH Transmit Diversity 2x2	Rel-8 only	C02	UE supporting E-UTRA TDD	
8.4.2.2.1_^	,	Rel-9	C02	UE supporting E-UTRA TDD	
8.4.2.2.2	TDD PCFICH/PDCCH Transmit Diversity 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	
8.4.2.2.2_^		Rel-9	C02	UE supporting E-UTRA TDD	
8.5.1.1	FDD PHICH Single-antenna Port Performance	Rel-8	C01	UE supporting E-UTRA FDD	
8.5.1.2	Void	Dalo	004	LIE averagetian E LIEDA EDD	
8.5.1.2.1	FDD PHICH Transmit Diversity 2x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.5.1.2.1_1		Rel-9	C01	UE supporting E-UTRA FDD	
8.5.1.2.2	FDD PHICH Transmit Diversity 4x2	Rel-8 only	C01	UE supporting E-UTRA FDD	
8.5.1.2.2_1	4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	
8.5.2.1	TDD PHICH Single-antenna Port Performance	Rel-8	C02	UE supporting E-UTRA TDD	
8.5.2.2 8.5.2.2.1	Void TDD BHICH Transmit Diversity	Rel-8	C02	UE supporting E-UTRA TDD	1
	TDD PHICH Transmit Diversity 2x2	only		0	
8.5.2.2.1_′	2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.5.2.2.2	TDD PHICH Transmit Diversity 4x2	Rel-8 only	C02	UE supporting E-UTRA TDD	
8.5.2.2.2_′	4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
8.7.1.1	FDD sustained data rate performance	Rel-9	C01	UE supporting E-UTRA FDD	
8.7.2.1	TDD sustained data rate performance	Rel-9	C02	UE supporting E-UTRA TDD	
	of Channel State Information	D. 1.0	1 004	LUE C EUTOA EDD	T
9.2.1.1	FDD CQI Reporting under AWGN conditions – PUCCH 1-0	Rel-8	C01	UE supporting E-UTRA FDD	
9.2.1.2	TDD CQI Reporting under AWGN conditions – PUCCH 1-0	Rel-8	C02	UE supporting E-UTRA TDD	
9.2.2.1	FDD CQI Reporting under AWGN conditions – PUCCH 1-1	Rel-8	C01	UE supporting E-UTRA FDD	
9.2.2.2	TDD CQI Reporting under AWGN conditions – PUCCH 1-1	Rel-8	C02	UE supporting E-UTRA TDD	
9.3.1.1.1	FDD CQI Reporting under fading conditions – PUSCH 3-0	Rel-8	C01	UE supporting E-UTRA FDD	
9.3.1.1.2	TDD CQI Reporting under fading conditions – PUSCH 3-0	Rel-8	C02	UE supporting E-UTRA TDD	
9.3.2.1.1	FDD CQI Reporting under fading conditions – PUCCH 1-0	Rel-8	C01	UE supporting E-UTRA FDD	
9.3.2.1.2	TDD CQI Reporting under fading conditions – PUCCH 1-0	Rel-8	C02	UE supporting E-UTRA TDD	
9.3.3.1.1	FDD CQI Reporting under fading conditions and frequency-selective interference – PUSCH 3-0	Rel-8	C01	UE supporting E-UTRA FDD	
9.3.3.1.2	TDD CQI Reporting under fading conditions and frequency-selective interference – PUSCH 3-0	Rel-8	C02	UE supporting E-UTRA TDD	
9.4.1.1.1	FDD PMI Reporting – PUSCH 3- 1 (Single PMI)	Rel-8	C01	UE supporting E-UTRA FDD	
9.4.1.1.2	TDD PMI Reporting – PUSCH 3- 1 (Single PMI)	Rel-8	C02	UE supporting E-UTRA TDD	
9.4.2.1.1	FDD PMI Reporting – PUSCH 1- 2 (Multiple PMI)	Rel-8 only	C01	UE supporting E-UTRA FDD	
9.4.2.1.1 _1	FDD PMI Reporting – PUSCH 1- 2 (Multiple PMI) (Release 9 and forward)	Rel-9	C01	UE supporting E-UTRA FDD	

Clause	Title	Release		Applicability	
			Condition	Comments	
9.4.2.1.2	TDD PMI Reporting – PUSCH 1-2 (Multiple PMI)	Rel-8 only	C02	UE supporting E-UTRA TDD	
9.4.2.1.2 _1	TDD PMI Reporting – PUSCH 1- 2 (Multiple PMI) (Release 9 and forward)	Rel-9	C02	UE supporting E-UTRA TDD	
9.5.1.1	FDD RI Reporting-PUCCH 1-1	Rel-8	C01	UE supporting E-UTRA FDD	
9.5.1.2	TDD RI Reporting-PUCCH 1-1	Rel-8	C02	UE supporting E-UTRA TDD	
MBMS Pe	rformance Testing				
10.1	FDD MBMS performance (Fixed Reference Channel)	Rel-9	C03	UE supporting E-UTRA FDD and MBMS	
10.2	TDD MBMS performance (Fixed Reference Channel)	Rel-9	C04	UE supporting E-UTRA TDD and MBMS	

Table 4.1-1a: Applicability of RF conformance test cases Conditions

C01	IF A.4.1-1/1 THEN R ELSE N/A
C02	IF A.4.1-1/2 THEN R ELSE N/A
C03	IF (A.4.1-1/1 AND A.4.2-1/1) THEN R ELSE N/A
C04	IF (A.4.1-1/2 AND A.4.2-1/1) THEN R ELSE N/A

4.2 RRM conformance test cases

Table 4.2-1: Applicability of RRM conformance test cases, ref. TS 36.521-3 [2]

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
	RRC_IDLE State Mobility E-UTRAN FDD - FDD cell re-selection	Dalo	004-	LIF comparting F LITPA FDD and	T
4.2.1	intra frequency case	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
4.2.2	E-UTRAN TDD - TDD cell re-selection	Rel-8	C02c	UE supporting E-UTRA TDD and	
	intra frequency case	1.0.0	0020	Feature Group Indicator 5	
4.2.3	E-UTRAN FDD - FDD cell re-selection	Rel-8	C01c	UE supporting E-UTRA FDD and	
	inter frequency case			Feature Group Indicator 5	
4.2.4	E-UTRAN FDD - TDD cell re-selection	Rel-8	C03	UE supporting E-UTRA FDD and	
4.2.5	inter frequency case E-UTRAN TDD - FDD cell re-selection	Rel-8	C03	E-UTRA TDD UE supporting E-UTRA FDD and	
4.2.3	inter frequency case	IVEI-0	003	E-UTRA TDD	
4.2.6	E-UTRAN TDD - TDD cell re-selection	Rel-8	C02c	UE supporting E-UTRA TDD and	
	inter frequency case			Feature Group Indicator 5	
4.3.1.1	E-UTRA FDD - UTRAN FDD cell re-	Rel-8	C04c	UE supporting E-UTRA FDD and	
	selection			UTRA FDD and Feature Group	
4.3.1.2	E-UTRA FDD - UTRAN FDD cell re-	Rel-8	C04c	Indicator 5 UE supporting E-UTRA FDD and	
4.3.1.2	selection: UTRA FDD is of lower	Kel-o	C040	UTRA FDD and Feature Group	
	priority			Indicator 5	
4.3.1.3	E-UTRAN FDD - UTRAN FDD cell re-	Rel-8	C04c	UE supporting E-UTRA FDD and	
	selection in fading propagation			UTRA FDD and Feature Group	
	conditions: UTRA FDD is of lower			Indicator 5	
4.3.2	priority E-UTRAN FDD - UTRAN TDD cell re-	Rel-8	C06	UE supporting E-UTRA FDD and	
4.0.2	selection	IXCI O	000	UTRA TDD and Feature Group	
				Indicator 5	
4.3.3	E-UTRAN TDD - UTRAN FDD cell re-	Rel-8	C07c	UE supporting E-UTRA TDD and	
	selection			UTRA FDD and Feature Group	
4.3.4.1	E-UTRA TDD - UTRAN TDD cell re-	Rel-8	C05c	Indicator 5 UE supporting E-UTRA TDD and	
4.3.4.1	selection	IVEI-0	0000	UTRA TDD and Feature Group	
	Sciodion			Indicator 5	
4.3.4.2	E-UTRAN TDD - UTRAN TDD cell re-	Rel-8	C05c	UE supporting E-UTRA TDD and	
	selection: UTRA is of lower priority			UTRA TDD and Feature Group	
4.3.4.3	EUTRA TDD-UTRA TDD cell	Rel-8	C05c	Indicator 5 UE supporting E-UTRA TDD and	
4.3.4.3	reselection in fading propagation	IVEI-0	0000	UTRA TDD and Feature Group	
	conditions: UTRA TDD is of lower			Indicator 5	
	priority				
4.4.1	E-UTRAN FDD - GSM cell re-selection	Rel-8	C08	UE supporting E-UTRA FDD and	
				GSM and Feature Group Indicator 5	
4.4.2	E-UTRAN TDD - GSM cell re-selection	Rel-8	C09d	UE supporting E-UTRA TDD and	
7.7.2	2 OTTO TELE CONTROLLE CONCOUNT	11010	0000	GSM and Feature Group Indicator	
				5	
4.5.1.1	E-UTRAN FDD - HRPD Cell re-	Rel-8	C10	UE supporting E-UTRA FDD and	
	selection: HRPD is of lower priority			cdma2000 HRPD and Feature Group Indicator 5	
4.6.1.1	E-UTRAN FDD - cdma2000 1xRTT	Rel-8	C11	UE supporting E-UTRA FDD and	
4.0.1.1	Cell re-selection: cdma2000 1x is of	IXCI O	011	cdma2000 1xRTT and Feature	
	lower priority			Group Indicator 5	
	RRC_CONNECTED State Mobility	,			
5.1.1	E-UTRAN FDD - FDD Handover intra	Rel-8	C01	UE supporting E-UTRA FDD	
5.1.2	frequency case E-UTRAN TDD - TDD Handover intra	Rel-8	C02	UE supporting E-UTRA TDD	
0.1.2	frequency case	1761-0	C02	OL Supporting E-OTRATIDD	
5.1.3	E-UTRAN FDD - FDD Handover inter	Rel-8	C01d	UE supporting E-UTRA FDD and	
	frequency case			Feature Group Indicators 5, 13 and	
				25	
5.1.4	E-UTRAN TDD - TDD Handover inter	Rel-8	C02d	UE supporting E-UTRA TDD and	
	frequency case			Feature Group Indicators 5, 13 and 25	
5.1.5	E-UTRAN FDD - FDD inter frequency	Rel-8	C01a	UE supporting E-UTRA FDD and	
3.1.0	handover: unknown target cell	1.010	2314	Feature Group Indicators 13 and	
	<u></u>			25	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	IIIOIIIIatioii
5.1.6	E-UTRAN TDD-TDD inter frequency handover: unknown target cell	Rel-8	C02a	UE supporting E-UTRA TDD and Feature Group Indicators 13 and 25	
5.2.1	E-UTRAN FDD - UTRAN FDD handover	Rel-8	C04a	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 8 and 22	
5.2.2	E-UTRAN TDD - UTRAN FDD handover	Rel-8	C07a	UE supporting E-UTRA TDD and UTRA FDD and Feature Group Indicators 8 and 22	
5.2.3	E-UTRAN FDD - GSM handover	Rel-8	C08a	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 9 and 23	
5.2.4	E-UTRAN TDD - UTRAN TDD handover	Rel-8	C05a	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 8 and 22	
5.2.5	E-UTRAN FDD - UTRAN TDD handover	Rel-8	C06a	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 8 and 22	
5.2.6	E-UTRA TDD - GSM handover	Rel-8	C09b	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 9 and 23	
5.2.7	E-UTRAN FDD - UTRAN FDD handover: unknown target cell	Rel-8	C04a	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 8 and 22	
5.2.8	E-UTRAN FDD - GSM handover: unknown target cell	Rel-8	C08a	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 9 and 23	
5.2.9	E-UTRAN TDD - GSM handover: unknown target cell	Rel-8	C09b	UE supporting E-UTRA TDD and GSM and Feature Group Indicators 9 and 23	
5.2.10	E-UTRAN TDD - UTRAN TDD handover: unknown target cell	Rel-8	C05a	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 8 and 22	
5.3.1	E-UTRAN FDD - HRPD Handover	Rel-8	C10a	UE supporting E-UTRA FDD and cdma2000 HRPD and Feature Group Indicators 12 and 26	
5.3.2	E-UTRAN FDD - cdma2000 1xRTT handover	Rel-8	C11a	UE supporting E-UTRA FDD and cdma2000 1xRTT and Feature Group Indicators 11 and 24	
5.3.3	E-UTRAN FDD - HRPD handover: unknown target cell	Rel-8	C10a	UE supporting E-UTRA FDD and cdma2000 HRPD and Feature Group Indicators 12 and 26	
5.3.4	E-UTRAN FDD - cdma2000 1xRTT handover: unknown target cell	Rel-8	C11a	UE supporting E-UTRA FDD and cdma2000 1xRTT and Feature Group Indicators 11 and 24	
RRC Conn	ection Mobility Control				
6.1.1	E-UTRAN FDD Intra-frequency RRC Re-establishment	Rel-8	C01	UE supporting E-UTRA FDD and	
6.1.2	E-UTRAN FDD Inter-frequency RRC Re-establishment E-UTRAN TDD Intra-frequency RRC	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25 UE supporting E-UTRA TDD	
6.1.4	Re-establishment E-UTRAN TDD Intra-frequency RRC Re-establishment	Rel-8	C02 C02b	UE supporting E-UTRA TDD and	
6.2.1	Re-establishment E-UTRAN FDD - Contention Based	Rel-8	C026	Feature Group Indicator 25 UE supporting E-UTRA FDD	
6.2.2	Random Access Test E-UTRAN FDD - Non-Contention	Rel-8	C01	UE supporting E-UTRA FDD	
6.2.3	Based Random Access Test E-UTRAN TDD - Contention Based	Rel-8	C02	UE supporting E-UTRA TDD	
6.2.4	Random Access Test E-UTRAN TDD - Non-Contention	Rel-8	C02	UE supporting E-UTRA TDD	
	Based Random Access Test			cappeg _ c(100	
	d Signalling Characteristics	D. L.C.	004	Luc comparis a EUTDA EDD	
7.1.1	E-UTRAN FDD - UE Transmit Timing Accuracy	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
7.1.2	E-UTRAN TDD - UE Transmit Timing Accuracy	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5	
7.2.1	E-UTRAN FDD - UE Timing Advance Adjustment Accuracy	Rel-8	C01	UE supporting E-UTRA FDD	
7.2.2	E-UTRAN TDD - UE Timing Advance Adjustment Accuracy	Rel-8	C02	UE supporting E-UTRA TDD	

Clause	Title	Release		Applicability	Additional Information
			Condition	Comments	
7.3.1	E-UTRAN FDD Radio Link Monitoring Test for Out-of-Sync	Rel-8	C01	UE supporting E-UTRA FDD	
7.3.2	E-UTRAN FDD Radio Link Monitoring Test for In-Sync	Rel-8	C01	UE supporting E-UTRA FDD	
7.3.3	E-UTRAN TDD Radio Link Monitoring Test for Out-of-Sync	Rel-8	C02	UE supporting E-UTRA TDD	
7.3.4	E-UTRAN TDD Radio Link Monitoring Test for In-Sync	Rel-8	C02	UE supporting E-UTRA TDD	
7.3.5	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync in DRX	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
7.3.6	E-UTRAN FDD Radio Link Monitoring Test for In-sync in DRX	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
7.3.7	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync in DRX	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5	
7.3.8	E-UTRAN TDD Radio Link Monitoring Test for In-sync in DRX	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5	
UE Measu	rements Procedures				
8.1.1	E-UTRAN FDD-FDD intra-frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-8	C01	UE supporting E-UTRA FDD	
8.1.2	E-UTRAN FDD-FDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
8.1.3	E-UTRAN FDD-FDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5	
8.1.4	Void				
8.1.5	E-UTRAN FDD - FDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C13	UE supporting E-UTRA FDD, CSG and intra-frequency SI acquisition for HO	
8.1.6	E-UTRAN FDD - FDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C13	UE supporting E-UTRA FDD, CSG and intra-frequency SI acquisition for HO	
8.2.1	E-UTRAN TDD-TDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5	
8.2.2	E-UTRAN TDD-TDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5	
8.2.3	E-UTRAN TDD - TDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C15	UE supporting E-UTRA TDD, CSG and intra-frequency SI acquisition for HO.	
8.2.4	E-UTRAN TDD - TDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C15	UE supporting E-UTRA TDD, CSG and intra-frequency SI acquisition for HO	
8.3.1	E-UTRAN FDD-FDD inter-frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25	
8.3.2	E-UTRAN FDD-FDD inter-frequency event triggered reporting when DRX is used under fading propagation conditions in asynchronous cells	Rel-8	C01e	UE supporting E-UTRA FDD and Feature Group Indicators 5 and 25	
8.3.3	E-UTRAN FDD-FDD inter frequency event triggered reporting under AWGN propagation conditions in asynchronous cells with DRX when L3 filtering is used	Rel-8	C01e	UE supporting E-UTRA FDD and Feature Group Indicators 5 and 25	
8.3.4	E-UTRAN FDD - FDD Inter-frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C14	UE supporting E-UTRA FDD, CSG and inter-frequency SI acquisition for HO	
8.3.5	E-UTRAN FDD - FDD Inter-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C14	UE supporting E-UTRA FDD, CSG and inter-frequency SI acquisition for HO.	

Clause	Title	Release		Applicability		
			Condition			
8.4.1	E-UTRAN TDD-TDD inter-frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25		
8.4.2	E-UTRAN TDD-TDD inter-frequency event triggered reporting when DRX is used under fading propagation conditions in synchronous cells	Rel-8	C02e	UE supporting E-UTRA TDD and Feature Group Indicators 5 and 25		
8.4.3	E-UTRAN TDD-TDD inter-frequency event triggered reporting under AWGN propagation conditions in synchronous cells with DRX when L3 filtering is used	Rel-8	C02e	UE supporting E-UTRA TDD and Feature Group Indicators 5 and 25		
8.4.4	E-UTRAN TDD - TDD Inter-frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C16	UE supporting E-UTRA TDD, CSG and inter-frequency SI acquisition for HO.		
8.4.5	E-UTRAN TDD - TDD Inter-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C16	UE supporting E-UTRA TDD, CSG and inter-frequency SI acquisition for HO.		
8.5.1	E-UTRAN FDD-UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C04b	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicator 22		
8.5.2	E-UTRAN FDD-UTRAN FDD SON ANR cell search reporting under AWGN propagation conditions	Rel-8	C04b	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicator 22		
8.5.3	E-UTRAN FDD - UTRAN FDD event triggered reporting when DRX is used under fading propagation conditions	Rel-8	C04d	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 5 and 22		
8.6.1	E-UTRAN TDD-UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C07b	UE supporting E-UTRA TDD and UTRA FDD and Feature Group Indicator 22		
8.7.1	E-UTRAN TDD-UTRAN TDD cell search under fading propagation conditions	Rel-8	C05b	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicator 22		
8.7.2	E-UTRAN TDD - UTRAN TDD cell search when DRX is used under fading propagation conditions	Rel-8	C05d	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 5 and 22		
8.7.3	E-UTRAN TDD - UTRAN TDD SON ANR cell search reporting under AWGN propagation conditions	Rel-8	C05b	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicator 22		
8.8.1	E-UTRAN FDD-GSM event triggered reporting in AWGN	Rel-8	C08b	UE supporting E-UTRA FDD and GSM and Feature Group Indicator 23		
8.8.2	E-UTRAN FDD - GSM event triggered reporting when DRX is used in AWGN	Rel-8	C08d	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 5 and 23		
8.9.1	E-UTRAN FDD-UTRAN TDD event triggered reporting in fading propagation conditions	Rel-8	C06b	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicator 22		
8.10.1	E-UTRAN TDD-GSM event triggered reporting in AWGN	Rel-8	C09a	UE supporting E-UTRA TDD and GSM and Feature Group Indicator 23		
8.10.2	E-UTRAN TDD - GSM event triggered reporting when DRX is used in AWGN	Rel-8	C09e	UE supporting E-UTRA TDD and GSM and Feature Group Indicators 5 and 23		
8.11.1	Multiple E-UTRAN FDD-FDD Inter- frequency event triggered reporting under fading propagation conditions	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25		
8.11.2	E-UTRAN TDD - E-UTRAN TDD and E-UTRAN TDD Inter-frequency event triggered reporting under fading propagation conditions	Rel-8	C02b UE supporting E-UTRA TDD and Feature Group Indicator 25			
8.11.3	E-UTRAN FDD-FDD Inter-frequency and UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C04e	C04e UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 22 and 25		
8.11.4	InterRAT E-UTRA TDD to E-UTRA TDD and UTRA TDD cell search	Rel-8	C05e	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 22 and 25		

Clause	Title Combined E-UTRAN FDD - E-UTRA FDD and GSM cell search; E-UTRA cells in fading; GSM cell in static propagation conditions	Release		Additional Information	
			Condition	Comments	
8.11.5		Rel-8	C08b	UE supporting E-UTRA FDD and GSM and Feature Group Indicator 23	
8.11.6	Combined E-UTRAN TDD - E-UTRA TDD and GSM cell search; E-UTRA cells in fading; GSM cell in static propagation conditions	Rel-8	C09a	UE supporting E-UTRA TDD and GSM and Feature Group Indicator 23	
Measurem	ent Performance Requirements				
9.1.1.1	FDD Intra Frequency Absolute RSRP Accuracy	Rel-8	C01	UE supporting E-UTRA FDD	
9.1.1.2	FDD Intra Frequency Relative Accuracy of RSRP	Rel-8	C01	UE supporting E-UTRA FDD	
9.1.2.1	TDD Intra Frequency Absolute RSRP Accuracy	Rel-8	C02	UE supporting E-UTRA TDD	
9.1.2.2	TDD Intra Frequency Relative Accuracy of RSRP	Rel-8	C02	UE supporting E-UTRA TDD	
9.1.3.1	FDD - FDD Inter Frequency Absolute RSRP Accuracy	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25	
9.1.3.2	FDD - FDD Inter Frequency Relative Accuracy of RSRP	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25	
9.1.4.1	TDD - TDD Inter Frequency Absolute RSRP Accuracy	Rel-8	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25	
9.1.4.2	TDD - TDD Inter Frequency Relative Accuracy of RSRP	Rel-8	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25	
9.2.1.1	FDD Intra Frequency Absolute RSRQ Accuracy	Rel-8	C01	UE supporting E-UTRA FDD	
9.2.2.1	TDD Intra Frequency Absolute RSRQ Accuracy	Rel-8	C02	UE supporting E-UTRA TDD	
9.2.3.1	FDD - FDD Inter Frequency Absolute RSRQ Accuracy	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25	
9.2.3.2	FDD - FDD Inter Frequency Relative Accuracy of RSRQ	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25	
9.2.4.1	TDD - TDD Inter Frequency Absolute RSRQ Accuracy	Rel-8	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25	
9.2.4.2	TDD -TDD Inter Frequency Relative Accuracy of RSRQ	Rel-8	C02b UE supporting E-UTRA TDD and Feature Group Indicator 25		
9.3.1	E-UTRAN FDD - UTRA FDD CPICH RSCP absolute accuracy	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD	
9.4.1	E-UTRAN FDD - UTRA FDD CPICH Ec/No absolute accuracy	Rel-9	C04 UE supporting E-UTRA FDD and UTRA FDD		
9.3.2	E-UTRAN TDD - UTRA FDD CPICH RSCP absolute accuracy	Rel-9	C07 UE supporting E-UTRA TDD and UTRA FDD		
9.4.2	E-UTRAN TDD - UTRA FDD CPICH Ec/No absolute accuracy	Rel-9	C07		
9.6.2	GSM RSSI absolute accuracy for E- UTRAN TDD	Rel-9	C09		

Table 4.2-1a: Applicability of RRM conformance test cases Conditions

004 JE A 4 4 4 4 TUEN D EL OF N/A
C01 IF A.4.1-1/1 THEN R ELSE N/A
C01a IF (A.4.1-1/1 AND A.4.4-1/13 AND A.4.4-1/25) THEN R ELSE N/A
C01b IF (A.4.1-1/1 AND A.4.4-1/25) THEN R ELSE N/A
C01c IF (A.4.1-1/1 AND A.4.4-1/5) THEN R ELSE N/A
C01d IF (A.4.1-1/1 AND A.4.4-1/5 AND A.4.4-1/13 AND A.4.4-1/25) THEN R ELSE N/A
C01e IF (A.4.1-1/1 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A
C02 IF A.4.1-1/2 THEN R ELSE N/A C02a IF (A.4.1-1/2 AND A.4.4-1/13 AND A.4.4-1/25) THEN R ELSE N/A
C02b IF (A.4.1-1/2 AND A.4.4-1/25) THEN R ELSE N/A
C02c IF (A.4.1-1/2 AND A.4.4-1/5) THEN R ELSE N/A
C02d IF (A.4.1-1/2 AND A.4.4-1/5) THEN R ELSE N/A C02d IF (A.4.1-1/2 AND A.4.4-1/5 AND A.4.4-1/13 AND A.4.4-1/25) THEN R ELSE N/A
C02e IF (A.4.1-1/2 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A
C03 IF (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A
C04 IF (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A
C04a IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A
C04b IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A
C04c IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5) THEN R ELSE N/A
C04d IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/5 AND A.4.4-1/22) THEN R ELSE N/A
C04e IF (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A
C05 IF (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A
C05a IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/9 AND A.4.4-1/25) THEN R ELSE N/A
C05b IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/25) THEN R ELSÉ N/A
C05c IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5) THEN R ELSE N/A
C05d IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/5 AND A.4.4-1/25) THEN R ELSE N/A
C05e IF (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1/22 AND A.4.4-1/25) THEN R ELSE N/A
C06 IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/5) THEN R ELSE N/A
C06a IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/11 AND A.4.4-1/22) THEN R ELSE N/A
C06b IF (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1/22) THEN R ELSE N/A
C07 IF (A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A
C07a IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/8 AND A.4.4-1/22) THEN R ELSE N/A
C07b IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/22) THEN R ELSE N/A
C07c IF (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1/5) THEN R ELSE N/A
C08 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5) THEN R ELSE N/A
C08a IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A
C08b IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A
C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A
C08d IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A
C09 IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5) THEN R ELSE N/A
C09a IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/23) THEN R ELSE N/A
C09b IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/9 AND A.4.4-1/23) THEN R ELSE N/A
C09c IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/22) THEN R ELSE N/A
C09d IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4.1/5) THEN R ELSE N/A
C09e IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1/5 AND A.4.4-1/23) THEN R ELSE N/A
C10 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/5) THEN R ELSE N/A
C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1/12 AND A.4.4-1/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/5) THEN R ELSE N/A
C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/3) THEN R ELSE N/A C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1/11 AND A.4.4-1/24) THEN R ELSE N/A
C12 Void
C13 IF (A.4.1-1/1 AND (A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A
C14 IF (A.4.1-1/1 AND (A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A
C15 IF (A.4.1-1/2 AND (A.4.5-1/1 AND A.4.5-1/2) THEN R ELSE N/A
C16 IF (A.4.1-1/2 AND (A.4.5-1/1 AND A.4.5-1/3) THEN R ELSE N/A

Annex A (normative): ICS proforma for E-UTRA User Equipment

Notwithstanding the provisions of the copyright related to the text of the present document, The Organizational Partners of 3GPP grant that users of the present document may freely reproduce the ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed ICS.

A.1 Guidance for completing the ICS proforma

A.1.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardised manner

The ICS proforma is subdivided into clauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- ICS proforma tables (for example: UE implementation types, Teleservices, etc).

A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [4].

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Reference column

The reference column gives reference to the relevant 3GPP core specifications.

Release column

The release column indicates the earliest release from which the capability or option is relevant.

Comments column

This column is left blank for particular use by the reader of the present document.

References to items

For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1: A.4.1-1/2 is the reference to the answer of item 2 in table A.4.1-1.

A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different clauses of the ICS proforma.

A.2 Identification of the User Equipment

Identification of the User Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

A.2.1	Date of the statement
A.2.2 UEUT name	User Equipment Under Test (UEUT) identification
Hardware co	nfiguration:
Software con	figuration:

A.2.3	Product supplier
Name:	
Address:	
Telephone nu	ımber:
Facsimile nu	mber:
E-mail addre	SS:
Additional in	formation
Additional in	iormation.
A O 4	
A.2.4	Client
Name:	
A 11	
Address:	
Telephone nu	ımber:
Facsimile nu	mber:
E-mail addre	ss:

	mormauon:	
A.2.5 Name:	ICS contact person	
Telephone n	number:	
Facsimile n	umber:	
E-mail addr	ess:	
Additional i	nformation:	
•••••		

A.3 Identification of the protocol

This ICS proforma applies to the 3GPP standards listed in the normative references clause of the present document.

A.4 ICS proforma tables

Editor's Note: This clause is not completed

A.4.1 UE Implementation Types

Table A.4.1-1: UE Radio Technologies

Item	UE Radio Technologies	Ref.	Release	Comments
1	E-UTRA FDD	36.101	Rel-8	
2	E-UTRA TDD	36.101	Rel-8	
3	UTRA FDD	25.101	Rel-8	
4	UTRA TDD	25.102	Rel-8	
5	GSM	45.005	Rel-8	
6	cdma2000 HRPD	C.S0024-A	Rel-8	
7	cdma2000 1xRTT	C.S0002-A	Rel-8	

A.4.2 UE Service Capabilities

Table A.4.2-1: UE Radio Technologies

Item	UE Radio Technologies	Ref.	Release	Comments
1	LTE MBMS	36.101	Rel-9	

A.4.3 Baseline Implementation Capabilities

Table A.4.3-1: Supported protocols

Item	Supported protocols	Ref.	Release	Comments
1	EPS Mobility Management	24.301, 5	Rel-8	
2	EPS Session Management	24.301, 6	Rel-8	
3	GPRS Mobility Management	23.060	R99	
4	Radio Resource Control	36.331	Rel-8	
5	Packet Data Convergence Protocol	36.323	Rel-8	
6	Radio Link Control	36.322	Rel-8	
7	Medium Access Control	36.321	Rel-8	
8	Physical Layer	36.201,	Rel-8	
		36.302		

Table A.4.3-2: Special Conformance Testing Functions

Item	Special Conformance Testing Functions	Ref.	Release	Comments
1	UE test loop	36.509	Rel-8	
2	Max UE test loop UL RLC SDU size 65535	36.509	Rel-8	
	bits			

Table A.4.3-3: RF Baseline Implementation Capabilities

Item	RF Baseline Implementation Capabilities	Ref.	Release	Comments
1	Frequency band: 1920-1980, 2110-2170 MHz	36.101, 5.5	Rel-8	FDD Band 1
2	Frequency band: 1850-1910, 1930-1990 MHz	36.101, 5.5	Rel-8	FDD Band 2
3	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	Rel-8	FDD Band 3
4	Frequency band: 1710-1755, 2110-2155 MHz	36.101, 5.5	Rel-8	FDD Band 4
5	Frequency band: 824-849, 869-894 MHz	36.101, 5.5	Rel-8	FDD Band 5
6	Frequency band: 830-840, 875-885 MHz	36.101, 5.5	Rel-8	FDD Band 6
7	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.5	Rel-8	FDD Band 7
8	Frequency band: 880-915, 925-960 MHz	36.101, 5.5	Rel-8	FDD Band 8
9	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	36.101, 5.5	Rel-8	FDD Band 9
10	Frequency band: 1710-1770, 2110-2170 MHz	36.101, 5.5	Rel-8	FDD Band 10
11	Frequency band: 1427.9-1447.9, 1475.9-1495.9 MHz	36.101, 5.5	Rel-8	FDD Band 11
12	Frequency band: 699-716, 729-746 MHz	36.101, 5.5	Rel-8	FDD Band 12
13	Frequency band: 777-787, 746-756 MHz	36.101, 5.5	Rel-8	FDD Band 13
14	Frequency band: 788-798, 758-768 MHz	36.101, 5.5	Rel-8	FDD Band 14
15	Reserved	36.101, 5.5	Rel-8	FDD Band 15
16	Reserved	36.101, 5.5	Rel-8	FDD Band16
17	Frequency band: 704-716, 734-746 MHz	36.101, 5.5	Rel-8	FDD Band 17
18	Frequency band: 815-830, 860-875 MHz	36.101, 5.5	Rel-9	FDD Band 18
19	Frequency band: 830-845, 875-890 MHz	36.101, 5.5	Rel-9	FDD Band 19
20	Frequency band: 832-862, 791-821MHz	36.101, 5.5	Rel-9	FDD Band 20
21	Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz	36.101, 5.5	Rel-9	FDD Band 21
22	Frequency band: 3410-3490, 3510-3590 MHz	36.101, 5.5	Rel-10	FDD Band 22
23	Frequency band: 2000-2020, 2180-2200 MHz	36.101, 5.5	Rel-10	FDD Band 23
24	Frequency band: 1626.5-1660.5, 1525-1559 MHz	36.101, 5.5	Rel-10	FDD Band 24
25	Frequency band: 1850-1915, 1930-1995 MHz	36.101, 5.5	Rel-10	FDD Band 25
33	Frequency band: 1900-1920, 1900-1920 MHz	36.101, 5.5	Rel-8	TDD Band 33
34	Frequency band: 2010-2025, 2010-2025 MHz	36.101, 5.5	Rel-8	TDD Band 34
35	Frequency band: 1850-1910, 1850-1910 MHz	36.101, 5.5	Rel-8	TDD Band 35
36	Frequency band: 1930-1990, 1930-1990 MHz	36.101, 5.5	Rel-8	TDD Band 36
37	Frequency band: 1910-1930, 1910-1930 MHz	36.101, 5.5	Rel-8	TDD Band 37
38	Frequency band: 2570-2620, 2570-2620 MHz	36.101, 5.5	Rel-8	TDD Band 38
39	Frequency band: 1880-1920, 1880-1920 MHz	36.101, 5.5	Rel-8	TDD Band 39
40	Frequency band: 2300-2400, 2300-2400 MHz	36.101, 5.5	Rel-8	TDD Band 40
41	Frequency band: 2496-2690, 2496-2690 MHz	36.101, 5.5	Rel-10	TDD Band 41
42	Frequency band: 3400-3600, 3400-3600 MHz	36.101, 5.5	Rel-10	TDD Band 42
43	Frequency band: 3600-3800, 3600-3800 MHz	36.101, 5.5	Rel-10	TDD Band 43
Note:	The values indicated in column "Release" are to be	understood a	s the specific	ations release version in

Note: The values indicated in column "Release" are to be understood as the specifications release version in which a band was introduced and not as a mandate that a UE conforming to particular release shall support a particular band. For further guidance to release independent bands see TS 36.307 [16]

Table A.4.3-4: PUSCH physical layer Categories

Item	PUSCH physical layer categories	Ref.	Release	Comments
1	Category 1	36.306, 4.1	Rel-8	
2	Category 2	36.306, 4.1	Rel-8	
3	Category 3	36.306, 4.1	Rel-8	
4	Category 4	36.306, 4.1	Rel-8	
5	Category 5	36.306, 4.1	Rel-8	Support for 64QAM in UL

Table A.4.3-5: PDSCH physical layer Categories

Item	PDSCH physical layer categories	Ref.	Release	Comments
1	Category 1	36.306, 4.1	Rel-8	
2	Category 2	36.306, 4.1	Rel-8	
3	Category 3	36.306, 4.1	Rel-8	
4	Category 4	36.306, 4.1	Rel-8	
5	Category 5	36.306, 4.1	Rel-8	

Table A.4.3-6: Supported Mixed MBSFN-unicast capabilities

Item	Supported Mixed MBSFN-unicast capabilities	Ref.	Release	Comments
1	Mixed MBSFN-unicast	36.211, 6.5	Rel-8	Support for MBSFN
				subframes: 1, 2, 3, 6, 7, 8

A.4.4 Feature group indicators

Table A.4.4-1: Feature group indicators

Item	Additional information	Notes	Ref.	Release	Mnemonic	Comments
1	Support of Intra-subframe frequency hopping for PUSCH scheduled by UL grant DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments) Multi-user MIMO for PDSCH Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 – UE selected subband CQI without PMI Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 – UE selected subband CQI with multiple PMI		36.331, Annex B.1	Rel-8		Corresponding to the Index of Indicator, the leftmost binary bit 1 Set to true if supporting all functionalities in the feature group
2	Support of - Simultaneous CQI and ACK/NACK on PUCCH, i.e. PUCCH format 2a and 2b - Absolute TPC command for PUSCH - Resource allocation type 1 for PDSCH - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 – UE selected subband CQI without PMI - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 – UE selected subband CQI with single PMI		36.331, Annex B.1	Rel-8		Corresponding to the Index of Indicator, the leftmost binary bit 2 Set to true if supporting all functionalities in the feature group

3	Support of - Semi-persistent scheduling - TTI bundling - 5bit RLC UM SN - 7bit PDCP SN Support of - 5bit RLC UM SN - 7bit PDCP SN	set to 1 if the UE has set bit number 7 to 1. - can only be set to 1 if the UE has set bit number 7 to 1.		Rel-9	pc_FeatrGrp_3	Corresponding to the Index of Indicator, the leftmost binary bit 3 Set to true if supporting all functionalities in the feature group
4	Support of - Short DRX cycle		36.331, Annex B.1	Rel-8	pc_FeatrGrp_4	Corresponding to the Index of Indicator, the leftmost binary bit 4 Set to true if supporting all functionalities in the feature group
5	Support of - Long DRX cycle - DRX command MAC control element		36.331, Annex B.1	Rel-8	pc_FeatrGrp_5	Corresponding to the Index of Indicator, the leftmost binary bit 5 Set to true if supporting all functionalities in the feature group
6	Support of - Prioritized bit rate		36.331, Annex B.1	Rel-8	pc_FeatrGrp_6	Corresponding to the Index of Indicator, the leftmost binary bit 6 Set to true if supporting all functionalities in the feature group
7	Support of - RLC UM		36.331, Annex B.1	Rel-8	pc_FeatrGrp_7	Corresponding to the Index of Indicator, the leftmost binary bit 7 Set to true if supporting all functionalities in the feature group
8	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH PS handover		36.331, Annex B.1	Rel-8	pc_FeatrGrp_8	Corresponding to the Index of Indicator, the leftmost binary bit 8 Set to true if supporting all functionalities in the feature group
9	Support of - EUTRA RRC_CONNECTED to GERAN GSM_Dedicated handover	- related to SR-VCC - can only be set to 1 if the UE has set bit number 23 to 1	36.331, Annex B.1	Rel-8	pc_FeatrGrp_9	Corresponding to the Index of Indicator, the leftmost binary bit 9 Set to true if supporting all functionalities in the feature group

10	Support of - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order with NACC (Network Assisted Cell Change)		36.331, Annex B.1	Rel-8	pc_FeatrGrp_10	Corresponding to the Index of Indicator, the leftmost binary bit 10 Set to true if supporting all functionalities in the feature group
11	Support of - EUTRA RRC_CONNECTED to CDMA2000 1xRTT CS Active handover	- can only be set to 1 if the UE has sets bit number 24 to 1	36.331, Annex B.1	Rel-8	pc_FeatrGrp_11	Corresponding to the Index of Indicator, the leftmost binary bit 11 Set to true if supporting all functionalities in the feature group
12	Support of - EUTRA RRC_CONNECTED to CDMA2000 HRPD Active handover	- can only be set to 1 if the UE has set bit number 26 to 1	36.331, Annex B.1	Rel-8	pc_FeatrGrp_12	Corresponding to the Index of Indicator, the leftmost binary bit 12 Set to true if supporting all functionalities in the feature group
13	Support of - Inter-frequency handover (within FDD or TDD)		36.331, Annex B.1	Rel-8	pc_FeatrGrp_13	Corresponding to the Index of Indicator, the leftmost binary bit 13 Set to true if supporting all functionalities in the feature group
14	Support of - Measurement reporting event: Event A4 – Neighbour > threshold - Measurement reporting event: Event A5 – Serving < threshold1 & Neighbour > threshold2		36.331, Annex B.1	Rel-8	pc_FeatrGrp_14	Corresponding to the Index of Indicator, the leftmost binary bit 14 Set to true if supporting all functionalities in the feature group
15	Support of - Measurement reporting event: Event B1 – Neighbour > threshold	- can only be set to 1 if the UE has set at least one of the bit number 22, 23, 24 or 26 to 1.	36.331, Annex B.1	Rel-8	pc_FeatrGrp_15	Corresponding to the Index of Indicator, the leftmost binary bit 15 Set to true if supporting all functionalities in the feature group

16	Support of - non-ANR related intra-frequency periodical measurement reporting; - non-ANR related inter-frequency periodical measurement reporting, if the UE has set bit number 25 to 1; and - non-ANR related inter-RAT periodical measurement reporting for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively. NOTE: 'non-ANR related periodical measurement reporting' corresponds only to periodical trigger type with purpose set to reportStrongestCells. Event triggered periodical reporting (i.e., event trigger type with reportAmount > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit.		36.331, Annex B.1	Rel-8	pc_FeatrGrp_16	Corresponding to the Index of Indicator, the leftmost binary bit 16 Set to true if supporting all functionalities in the feature group
17	Support of - Periodical measurement reporting for SON / ANR - ANR related intra-frequency measurement reporting events	- can only be set to 1 if the UE has set bit number 5 to 1.	36.331, Annex B.1	Rel-8	pc_FeatrGrp_17	Corresponding to the Index of Indicator, the leftmost binary bit 17 Set to true if supporting all functionalities in the feature group
18	Support of - ANR related inter-frequency measurement reporting events	- can only be set to 1 if the UE has set bit number 5 to 1.	36.331, Annex B.1	Rel-8	pc_FeatrGrp_18	Corresponding to the Index of Indicator, the leftmost binary bit 18 Set to true if supporting all functionalities in the feature group
19	Support of - ANR related inter-RAT measurement reporting events	- can only be set to 1 if the UE has set bit number 5 to 1.	36.331, Annex B.1	Rel-8	pc_FeatrGrp_19	Corresponding to the Index of Indicator, the leftmost binary bit 19 Set to true if supporting all functionalities in the feature group

20	If bit number 7 is set to "0": - SRB1 and SRB2 for DCCH + 8x AM DRB If bit number 7 is set to "1": - SRB1 and SRB2 for DCCH + 8x AM DRB - SRB1 and SRB2 for DCCH + 5x AM DRB + 3x UM DRB NOTE: UE which indicate support for a DRB combination also support all subsets of the DRB combination. Therefore, release of DRB(s) never results in an unsupported DRB combination.	of what bit number 7 and bit number 20 is set to, UE shall support at least SRB1 and SRB2 for	36.331, Annex B.1	Rel-8	pc_FeatrGrp_20	Corresponding to the Index of Indicator, the leftmost binary bit 20 Set to true if supporting all functionalities in the feature group
21	Support of - Predefined intra- and inter-subframe frequency hopping for PUSCH with N_sb > 1 - Predefined inter-subframe frequency hopping for PUSCH with N_sb > 1		36.331, Annex B.1	Rel-8	pc_FeatrGrp_21	Corresponding to the Index of Indicator, the leftmost binary bit 21 Set to true if supporting all functionalities in the feature group
22	Support of - UTRAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		36.331, Annex B.1	Rel-8	pc_FeatrGrp_22	Corresponding to the Index of Indicator, the leftmost binary bit 22 Set to true if supporting all functionalities in the feature group
23	Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		36.331, Annex B.1	Rel-8	pc_FeatrGrp_23	Corresponding to the Index of Indicator, the leftmost binary bit 23 Set to true if supporting all functionalities in the feature group
24	Support of - 1xRTT measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		36.331, Annex B.1	Rel-8	pc_FeatrGrp_24	Corresponding to the Index of Indicator, the leftmost binary bit 24 Set to true if supporting all functionalities in the feature group

25	Support of - Inter-frequency measurements and reporting in E-UTRA connected mode NOTE: The UE setting this bit to 1 and indicating support for FDD and TDD frequency bands in the UE capability signalling implements and is tested for FDD measurements while the UE is in TDD, and for TDD measurements while the UE is in FDD.		36.331, Annex B.1	Rel-8	pc_FeatrGrp_25	Corresponding to the Index of Indicator, the leftmost binary bit 25 Set to true if supporting all functionalities in the feature group
26	Support of - HRPD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode		36.331, Annex B.1		pc_FeatrGrp_26	Corresponding to the Index of Indicator, the leftmost binary bit 26 Set to true if supporting all functionalities in the feature group
27	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH CS handover	- related to SR-VCC - can only be set to 1 if the UE has set bit number 8 to 1	36.331, Annex B.1	Rel-8	pc_FeatrGrp_27	Corresponding to the Index of Indicator, the leftmost binary bit 27 Set to true if supporting all functionalities in the feature group
28	Support of - TTI bundling		36.331, Annex B.1	Rel-9	pc_FeatrGrp_28	Corresponding to the Index of Indicator, the leftmost binary bit 28 Set to true if supporting all functionalities in the feature group
29	Support of - Semi-Persistent Scheduling		36.331, Annex B.1	Rel-9	pc_FeatrGrp_29	Corresponding to the Index of Indicator, the leftmost binary bit 29 Set to true if supporting all functionalities in the feature group
30	Support of - Handover between FDD and TDD	- can only be set to 1 if the UE has set bit number 13 to 1	36.331, Annex B.1	Rel-8	pc_FeatrGrp_30	Corresponding to the Index of Indicator, the leftmost binary bit 30 Set to true if supporting all functionalities in the feature group
31	Undefined		36.331, Annex B.1	Rel-8	pc_FeatrGrp_31	Corresponding to the Index of Indicator, the leftmost binary bit 31 Set to true if supporting all functionalities in the feature group

32	Undefined	36.331, Annex	Rel-8	pc_FeatrGrp_32	Corresponding to the Index
		B.1			of Indicator, the leftmost
					binary bit 32
					Set to true if supporting all
					functionalities in the feature
					group

A.4.5 Additional information

Table A.4.5-1: Additional information

Item	Additional information	Ref.	Release	Mnemonic	Comments
1	Support of CSG	36.331 Annex	Rel-8	pc_CSG_list	
		B.2			
2	Support of intra-frequency SI	36.304	Rel-9	pc_ intraFreqSI-	
	acquisition for HO	4.3.11.1		AcquisitionForHO	
3	Support of inter-frequency SI	36.304	Rel-9	pc_ interFreqSI-	
	acquisition for HO	4.3.11.2		AcquisitionForHO	

Annex B (informative): Change history

Date	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 - Some Conditions for TC selections introduce		
2008-08		+			Updated after RAN5#40:	0.1.1	0.2.0
2000-00					- 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		
2008-11			+		- Some editorial updates Update After RAN5#41 (R5-055360):	0.2.0	2.0.0
2006-11					- Renamed 8.1.1, added new 8.1.2,	0.3.0	2.0.0
					- 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
					8.0.0.		
2008-01					Editorial corrections.	8.0.0	8.0.1
2009-05	RAN#44	RP-090448	0001		CR to 36.521-2: Applicability changes and additions for RRM	8.0.1	8.1.0
2009-05	RAN#44	RP-090448	0002		test cases LTE-RF: Applicability for Output Power Dynamics test cases	8.0.1	8.1.0
2009-05	RAN#44	R5-090446	0002	<u> </u>	Correction CR to 36.521-2: Applicability changes to	8.1.0	8.2.0
2000 00	10 11 11 40	110 004000	0000		introduce additional RRM tests	0.1.0	0.2.0
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
					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
2003 12	10/11/11/10	10 000010	0000		the Demodulation of PDSCH (FDD) tests based on the CR	0.2.0	0.5.0
					merge results from RAN5#44		
2009-12	RAN#46	R5-095778	0009		Update of RRM Conformance test applicability for RLM in	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
2010-03	RAN#47	R5-100358	0011	<u> </u>	tests CR to 36.521-2 Rel-8 Introduction of Applicability for E-	8.3.0	8.4.0
2010-03	IXAIN#47	100330	0011	_	UTRAN FDD - FDD Intra Frequency Cell Search with DRX	0.5.0	0.4.0
					when L3 filtering is used		
2010-03	RAN#47	R5-100561	0012	-	CR to 36.521-2: Update baseline implementation capabilities	8.3.0	8.4.0
					with extended LTE1500 operating bands		
2010-03	RAN#47	R5-100872	0013	-	CSI: Following up corrections to tests titles and RI clause	8.3.0	8.4.0
2010.02	RAN#47		+		Structure Mayord to y0.0.0 with no change	9.4.0	0.00
2010-03 2010-06	RAN#47	R5-103147	0014	Ι-	Moved to v9.0.0 with no change Adding band 20, 800MHZ in EU to TS36.521-2	8.4.0 9.0.0	9.0.0
2010-06	RAN#48	R5-103757	0014	1-	Introduction of feature group indicator in applicability for	9.0.0	9.1.0
					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
		1	1	1			
2010-09	RAN#49	R5-104372	0019	-	Update of Applicability for Demodulation test cases and UE	9.1.0	9.2.0
2010-09	RAN#49	R5-104840	0020	1	implementation Types for UTRA TDD 36521-2 General update to add-remove TCs applicability	9.1.0	9.2.0
2010-09	KAN#49	K3-104640	0020	-	correct, TC titles and numbers and editorials	9.1.0	9.2.0
	1	1	1	1	Loon oot, 10 titios and numbers and editorials	l	ı

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2010-09	RAN#49	R5-105056	0021	-	Applicability of a new Rel-9 downlink sustained data rate performance test cases	9.1.0	9.2.0
2010-12	RAN#50	R5-106118	0022	-	CR to 36.521-2: Update baseline implementation capabilities for EUTRA TDD LTE band 41	9.2.0	9.3.0
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 applicability of RRM TCs	9.3.0	9.4.0
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	R5-113626	0034	-	Introduction of applicability of PDSCH performance tests for low UE categories	9.5.0	9.6.0
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	R5-114070	0036	-	Update baseline implementation capabilities for FDD LTE Band 23 in 36.521-2	9.5.0	9.6.0
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 and 38 co-existence (Rel-8 only)	9.6.0	9.7.0
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
2011-12	RAN#54	-	-	-	Moved to Rel-10 with no change	9.7.0	10.0.0

History

Document history		
V10.0.0	January 2012	Publication