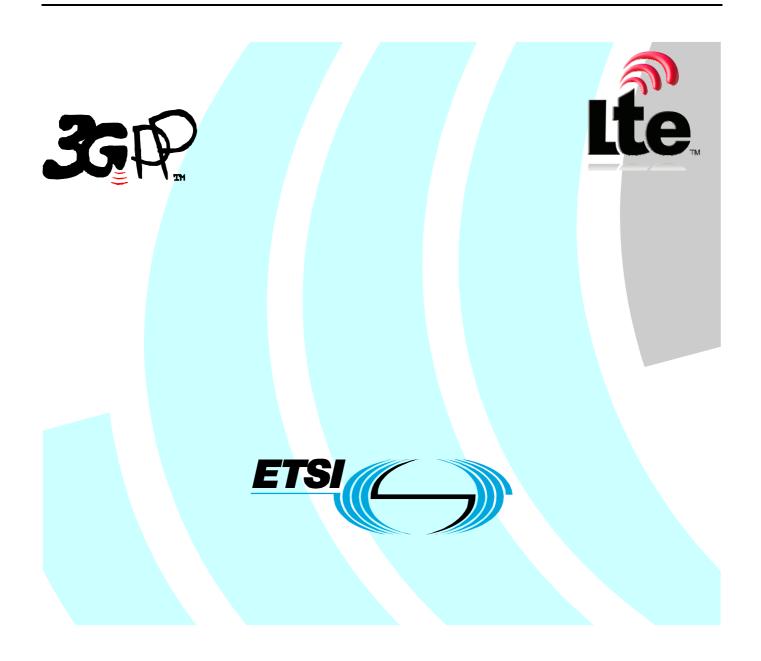
# ETSI TS 136 307 V9.2.0 (2011-01)

Technical Specification

LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 9.2.0 Release 9)



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Reference RTS/TSGR-0436307v920

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# Foreword

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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.

### 1 Scope

The present document specifies requirements on UEs supporting a frequency band that is independent of release. TSG-RAN has agreed that the standardisation of new frequency bands may be independent of a release. However, in order to implement a UE that conforms to a particular release but supports a band of operation that is specified in a later release, it is necessary to specify some extra requirements.

For example, Band 19 is contained in the Release 9 specifications. In order to implement a UE conforming to Release 8 but supporting Band 19, it is necessary for the UE to additionally conform to some parts of the Release 9 specifications, such as the radio frequency and radio resource management requirements for the Band 19.

All frequency bands are fully specified in this release of the specifications. The present document does not contain any requirements for UEs supporting frequency bands independent of release.

# 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 TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 36.101 (Release 9, version 9): "Evolved Universal Terrestrial Radio Access (E-UTRA); "User Equipment (UE) Radio Transmission and Reception".
- [3] 3GPP TS 36.133 (Release 9, version 9): "Evolved Universal Terrestrial Radio Access (E-UTRA); "Requirements for Support of Radio Resource Management".

# 3 Definitions and Abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in [1] apply.

### 3.2 Abbreviations

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

- FDD Frequency Division Duplex
- RRC Radio Resource Control
- RRM Radio Resource Management
- UE User Equipment

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4	Void			
5	Void			
6	Void			
7	Void			

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# 8 Band 41 Independent of Release

Band 41 is specified in Release 10 but is defined as a release-independent frequency band. This approach aligns the Band 41 band with other frequency bands when considering features that have to be supported in different releases.

## 8.1 Band 41 UE

UEs that conform to Release 9 and support band 41 shall support the following requirements in Release 10.

### 8.1.1 RF Requirements

The UE shall comply with the RF requirements for band 41 specified in [2]. These requirements are:

Section / Clause	Description
5.5	Operating bands
5.6	Channel bandwidth
5.7	Channel arrangement
6.2	Transmit power
6.3	Output power dynamics
6.6	Output RF spectrum emissions
6.7	Transmit intermodulation
7.3	Reference sensitivity power level
7.4	Maximum input level
7.5	Adjacent Channel Selectivity (ACS)
7.6	Blocking characteristics
7.7	Spurious response
7.8	Intermodulation characteristics

Table 8.1.1-1: RF Requirements for Band 41	UE
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#### 8.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for band 41 specified in [3]. These requirements are:

Section / Clause	Description
4	E-UTRAN RRC_IDLE state mobility
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE
A.9	Measurement Performances for UE Test Cases

# 9 Band 42 Independent of Release

Band 42 is specified in Release 10 but is defined as a release-independent frequency band. This approach aligns the Band 42 band with other frequency bands when considering features that have to be supported in different releases.

### 9.1 Band 42 UE

UEs that conform to Release 9 and support band 42 shall support the following requirements in Release 10.

### 9.1.1 RF Requirements

The UE shall comply with the RF requirements for band 42 specified in [2]. These requirements are:

Section / Clause	Description
5.5	Operating bands
5.6	Channel bandwidth
5.7	Channel arrangement
6.2	Transmit power
6.3	Output power dynamics
6.6	Output RF spectrum emissions
6.7	Transmit intermodulation
7.3	Reference sensitivity power level
7.4	Maximum input level
7.5	Adjacent Channel Selectivity (ACS)
7.6	Blocking characteristics
7.7	Spurious response
7.8	Intermodulation characteristics

#### Table 9.1.1-1: RF Requirements for Band 42 UE

#### 9.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for band 42 specified in [3]. These requirements are:

Section / Clause	Description
4	E-UTRAN RRC_IDLE state mobility
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE
A.9	Measurement Performances for UE Test Cases

Table 9.1.2-1: RRM Requirements for Band 42 UE

# 10 Band 43 Independent of Release

Band 43 is specified in Release 10 but is defined as a release-independent frequency band. This approach aligns the Band 43 band with other frequency bands when considering features that have to be supported in different releases.

### 10.1 Band 43 UE

UEs that conform to Release 9 and support band 43 shall support the following requirements in Release 10.

### 10.1.1 RF Requirements

The UE shall comply with the RF requirements for band 43 specified in [2]. These requirements are:

Section / Clause	Description
5.5	Operating bands
5.6	Channel bandwidth
5.7	Channel arrangement
6.2	Transmit power
6.3	Output power dynamics
6.6	Output RF spectrum emissions
6.7	Transmit intermodulation
7.3	Reference sensitivity power level
7.4	Maximum input level
7.5	Adjacent Channel Selectivity (ACS)
7.6	Blocking characteristics
7.7	Spurious response
7.8	Intermodulation characteristics

Table 10.1.1-1: RF Requirements for Band 43 UE

### 10.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for band 43 specified in [3]. These requirements are:

Section / Clause	Description
4	E-UTRAN RRC_IDLE state mobility
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE
A.9	Measurement Performances for UE Test Cases

#### Table 10.1.2-1: RRM Requirements for Band 43 UE

# 11 Band 24 Independent of Release

Band 24 is specified in Release 10 but is defined as a release-independent frequency band. This approach aligns the Band 24 band with other frequency bands when considering features that have to be supported in different releases.

### 11.1 Band 24 UE

UEs that conform to Release 9 and support Band 24 shall support the following requirements in Release 10.

#### 11.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 24 specified in [2]. These requirements are:

Section / Clause	Description
5.5	Operating bands
5.6	Channel bandwidth
5.7	Channel arrangement
6.2	Transmit power
6.3	Output power dynamics
6.6	Output RF spectrum emissions
6.7	Transmit intermodulation
7.3	Reference sensitivity power level
7.4	Maximum input level
7.5	Adjacent Channel Selectivity (ACS)
7.6	Blocking characteristics
7.7	Spurious response
7.8	Intermodulation characteristics

#### Table 11.1.1-1: RF Requirements for Band 24 UE

### 11.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for Band 24 specified in [3]. These requirements are:

#### Table 11.1.2-1: RRM Requirements for Band 24 UE

Section / Clause	Description
4	E-UTRAN RRC_IDLE state mobility
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE
A.9	Measurement Performances for UE Test Cases

# Annex A (informative): Change history

#### Table A.1: Change History

Date	TSG#	TSG Doc.	CR	Subject	Old	New
11-2009	RP#46	RP-091141		TS36.307 V0.1.0 approved by RAN (Originally in R4-095022)	-	0.1.0
02-2010	R4#54	R4-100419		For release 9 version, replace sections 4 to 6 as "Void" and add a new	0.1.0	0.2.0
				void section as section 7.		
03-2010	RP#47	RP-100162		TS36.307 v1.0.0 for approval	0.2.0	1.0.0
03-2010	RP#47	RP-100162		Approved by RAN	1.0.0	9.0.0
09-2010	RP-49	RP-100927	2	CR LTE_TDD_2600_US spectrum band definition additions to TS 36.307 V900	9.0.0	9.1.0
				Correction of section numbering	9.1.0	9.1.1
12-2010	RP-50	RP-101356	008	Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.1.1	9.2.0
12-2010	RP-50	RP-101361	005	Introduction of L-band in TS 36.307	9.1.1	9.2.0

**ETSI** 

# History

Document history					
V9.0.0	April 2010	Publication			
V9.1.1	October 2010	Publication			
V9.2.0	January 2011	Publication			