

# ETSI TS 136 307 V11.5.0 (2013-10)



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 11.5.0 Release 11)**



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**Keywords**

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## Foreword

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# Foreword

This Technical Specification has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

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- z the third digit is incremented when editorial only changes have been incorporated in the document.

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# 1 Scope

The present document specifies requirements on UEs supporting a frequency band and inter-band/intra-band CA configurations that are independent of release. TSG-RAN has agreed that the standardisation of new frequency bands may be independent of a release, and that the standardisations of new inter-band/intra-band CA configurations also may be independent of a release for Rel-10 upwards. However, in order to implement a UE that conforms to a particular release but supports a band of operation or carrier aggregation of particular inter-band/intra-band CA configurations 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.

For another example on carrier aggregations, CA configuration CA\_1A-19A is contained in the Release 11 specifications. In order to implement a UE conforming to Release 10 but supporting the CA configuration CA\_1A-19A, it is necessary for the UE to additionally conform to some parts of the Release 11 specifications, such as the radio frequency and radio resource management requirements for the CA configuration CA\_1A-19A.

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.

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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] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 36.101 (Release 12): "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Radio Transmission and Reception".
- [3] 3GPP TS 36.133 (Release 12): "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for Support of Radio Resource Management".

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# 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:



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4 Void

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23 CA configuration CA\_1A-18A Independent of Release

CA configuration CA\_1A-18A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

### 23.1 CA\_1A-18A UE

UEs that conform to Release 11 and support CA\_1A-18A shall support the following requirements in Release 12.

## 23.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_1A-18A specified in [2]. These requirements are:

**Table 23.1.1-1: RF Requirements for CA\_1A-18A UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
6.2.5A	Configured transmitted Power for CA
7.3.1	Minimum requirements (QPSK)

## 23.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA\_1A-18A specified in [3]. These requirements are:

**Table 23.1.2-1: RRM Requirements for CA\_1A-18A UE**

Section / Clause	Description
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE.

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24 Void

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27 Void

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38 Void

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39 Void

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40 Void

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## 41 Void

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## 42 Band 30 Independent of Release

Band 30 is specified in Release 12 but is defined as a release-independent frequency band. This approach aligns the Band 30 band with other frequency bands when considering features that have to be supported in different releases.

### 42.1 Band 30 UE

UEs that conform to Release 11 and support Band 30 shall support the following requirements in Release 12.

#### 42.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 30 specified [2]. The requirements are:

**Table 42.1.1-1: RF Requirements for Band 30 UE**

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

#### 42.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for Band 30 specified in [3]. These requirements are:

**Table 42.1.2-1: RRM Requirements for Band 30 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

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## 43 Band 31 Independent of Release

Band 31 is specified in Release 12 but is defined as a release-independent frequency band. This approach aligns the Band 31 band with other frequency bands when considering features that have to be supported in different releases.

## 43.1 Band 31 UE

UEs that conform to Release 11 and support Band 31 shall support the following requirements in Release 12.

### 43.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 31 specified [2]. The requirements are:

**Table 43.1.1-1: RF Requirements for Band 31 UE**

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

### 43.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for Band 31 specified in [3]. These requirements are:

**Table 43.1.2-1: RRM Requirements for Band 31 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

### 43.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the following demodulation performance and CSI reporting requirements for Band 31 specified in [2]. These requirements are:

**Table 43.1.3-1: Demodulation and CSI Requirements for Band 31 UE**

Section / Clause	Description
8	Demodulation performance requirements
9	Performance requirements of reporting of channel state information.

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## 44 CA configuration CA\_1A-8A Independent of Release

CA configuration CA\_1A-8A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

## 44.1 CA\_1A-8A UE

UEs that conform to Release 11 and support CA\_1A-8A shall support the following requirements in Release 12.

### 44.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_1A-8A specified in [2]. These requirements are:

**Table 44.1.1-1: RF Requirements for CA\_1A-8A UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
6.2.5A	Configured transmitted Power for CA
7.3.1	Minimum requirements (QPSK)

### 44.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA\_1A-8A specified in [3]. These requirements are:

**Table 44.1.2-1: RRM Requirements for CA\_1A-8A UE**

Section / Clause	Description
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE.

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## 45 CA configuration CA\_2A-13A Independent of Release

CA configuration CA\_2A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

### 45.1 CA\_2A-13A UE

UEs that conform to Release 11 and support CA\_2A-13A shall support the following requirements in Release 12.

#### 45.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_2A-13A specified in [2]. These requirements are:

**Table 45.1.1-1: RF Requirements for CA\_2A-13A UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
6.2.5A	Configured transmitted Power for CA
7.3.1	Minimum requirements (QPSK)

#### 45.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA\_2A-13A specified in [3]. These requirements are:

**Table 45.1.2-1: RRM Requirements for CA\_2A-13A UE**

Section / Clause	Description
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE.

## 46 CA configuration CA\_3A-19A Independent of Release

CA configuration CA\_3A-19A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

### 46.1 CA\_3A-19A UE

UEs that conform to Release 11 and support CA\_3A-19A shall support the following requirements in Release 12.

#### 46.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_3A-19A specified in [2]. These requirements are:

**Table 46.1.1-1: RF Requirements for CA\_3A-19A UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
6.2.5A	Configured transmitted Power for CA
7.3.1	Minimum requirements (QPSK)

#### 46.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA\_3A-19A specified in [3]. These requirements are:

**Table 46.1.2-1: RRM Requirements for CA\_3A-19A UE**

Section / Clause	Description
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE.

## 47 CA configuration CA\_3A-26A Independent of Release

CA configuration CA\_3A-26A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

### 47.1 CA\_3A-26A UE

UEs that conform to Release 11 and support CA\_3A-26A shall support the following requirements in Release 12.



## 47.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_3A-26A specified in [2]. These requirements are:

**Table 47.1.1-1: RF Requirements for CA\_3A-26A UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
6.2.5A	Configured transmitted Power for CA
7.3.1	Minimum requirements (QPSK)

## 47.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA\_3A-26A specified in [3]. These requirements are:

**Table 47.1.2-1: RRM Requirements for CA\_3A-26A UE**

Section / Clause	Description
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE.

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# 48 CA configuration CA\_3A-28A Independent of Release

CA configuration CA\_3A-28A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

## 48.1 CA\_3A-28A UE

UEs that conform to Release 11 and support CA\_3A-28A shall support the following requirements in Release 12.

### 48.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_3A-28A specified in [2]. These requirements are:

**Table 48.1.1-1: RF Requirements for CA\_3A-28A UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
6.2.5A	Configured transmitted Power for CA
7.3.1	Minimum requirements (QPSK)

### 48.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA\_3A-28A specified in [3]. These requirements are:

**Table 48.1.2-1: RRM Requirements for CA\_3A-28A UE**

Section / Clause	Description
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE.

## 49 CA configuration CA\_19A-21A Independent of Release

CA configuration CA\_19A-21A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

### 49.1 CA\_19A-21A UE

UEs that conform to Release 11 and support CA\_19A-21A shall support the following requirements in Release 12.

#### 49.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_19A-21A specified in [2]. These requirements are:

**Table 49.1.1-1: RF Requirements for CA\_19A-21A UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
6.2.5A	Configured transmitted Power for CA
7.3.1	Minimum requirements (QPSK)

#### 49.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA\_19A-21A specified in [3]. These requirements are:

**Table 49.1.2-1: RRM Requirements for CA\_19A-21A UE**

Section / Clause	Description
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE.

## 50 CA configuration CA\_23A-29A Independent of Release

CA configuration CA\_23A-29A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

### 50.1 CA\_23A-29A UE

UEs that conform to Release 11 and support CA\_23A-29A shall support the following requirements in Release 12.

## 50.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_23A-29A specified in [2]. These requirements are:

**Table 50.1.1-1: RF Requirements for CA\_23A-29A UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
6.2.5A	Configured transmitted Power for CA
7.3.1	Minimum requirements (QPSK)

## 50.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA\_23A-29A specified in [3]. These requirements are:

**Table 50.1.2-1: RRM Requirements for CA\_23A-29A UE**

Section / Clause	Description
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE.

# 51 CA configuration CA\_4A-4A Independent of Release

CA configuration CA\_4A-4A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

## 51.1 CA\_4A-4A UE

UEs that conform to Release 11 and support CA\_4A-4A shall support the following requirements in Release 12.

### 51.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_4A-4A specified in [2]. These requirements are:

**Table 51.1.1-1: RF Requirements for CA\_4A-4A UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
7.1	General
7.3.1A	Minimum requirements (QPSK) for CA, (REFSENS)
7.4.1A	Minimum requirements for CA, (Maximum input level)
7.5.1A	Minimum requirements for CA, (Adjacent channel selectivity)
7.6.1.1A	Minimum requirements for CA, (In-band blocking)
7.6.2.1A	Minimum requirements for CA, (Out of band blocking)
7.6.3.1A	Minimum requirements for CA, (Narrow band blocking)
7.7.1A	Minimum requirements for CA, (Spurious response)
7.8.1A	Minimum requirements for CA, (Wideband intermodulation)

## 51.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA\_4A-4A specified in [3]. These requirements are:

**Table 51.1.2-1: RRM Requirements for CA\_4A-4A UE**

Section / Clause	Description
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE.

## 52 CA configuration CA\_3C Independent of Release

CA configuration CA\_3C is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

### 52.1 CA\_3C UE

UEs that conform to Release 11 and support CA\_3C shall support the following requirements in Release 12.

#### 52.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_3C specified in [2]. These requirements are:

**Table 52.1.1-1: RF Requirements for CA\_3C UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A.1	Channel bandwidths per operating band for CA
6.2.2A	UE maximum output power for intra-band contiguous CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
6.2.5A	Configured transmitted power for CA
6.6.2.1A	Spectrum emission mask for CA
7.3.1A	Reference sensitivity power level minimum requirements for CA
7.6.1.1A	In-band blocking minimum requirements for CA
7.6.2.1A	Out-of-band blocking minimum requirements for CA

#### 52.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA\_3C specified in [3]. These requirements are:

**Table 52.1.1-2: RRM Requirements for CA\_3C 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

## 53 CA configuration CA\_1A-26A Independent of Release

CA configuration CA\_1A-26A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

### 53.1 CA\_1A-26A UE

UEs that conform to Release 11 and support CA\_1A-26A shall support the following requirements in Release 12.

#### 53.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_1A-26A specified in [2]. These requirements are:

**Table 53.1.1-1: RF Requirements for CA\_1A-26A UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
6.2.5A	Configured transmitted Power for CA
7.3.1	Minimum requirements (QPSK)

#### 53.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA\_1A-26A specified in [3]. These requirements are:

**Table 53.1.2-1: RRM Requirements for CA\_1A-26A UE**

Section / Clause	Description
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE.

## 54 CA configuration CA\_2A-4A Independent of Release

CA configuration CA\_2A-4A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

### 54.1 CA\_2A-4A UE

UEs that conform to Release 11 and support CA\_2A-4A shall support the following requirements in Release 12.

#### 54.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_2A-4A specified in [2]. These requirements are:

**Table 54.1.1-1: RF Requirements for CA\_2A-4A UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
6.2.5A	Configured transmitted Power for CA
7.3.1	Minimum requirements (QPSK)

## 54.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA\_2A-4A specified in [3]. These requirements are:

**Table 54.1.2-1: RRM Requirements for CA\_2A-4A UE**

Section / Clause	Description
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE.

# 55 CA configuration CA\_2A-5A Independent of Release

CA configuration CA\_2A-5A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

## 55.1 CA\_2A-5A UE

UEs that conform to Release 11 and support CA\_2A-5A shall support the following requirements in Release 12.

### 55.1.1 RF Requirements

The UE shall comply with the RF requirements for CA\_2A-5A specified in [2]. These requirements are:

**Table 55.1.1-1: RF Requirements for CA\_2A-5A UE**

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
6.2.5A	Configured transmitted Power for CA
7.3.1	Minimum requirements (QPSK)

### 55.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA\_2A-5A specified in [3]. These requirements are:

**Table 55.1.2-1: RRM Requirements for CA\_2A-5A UE**

Section / Clause	Description
8	UE Measurements Procedures in RRC_CONNECTED State
9	Measurement Performances for UE.

## Annex A (informative) :

### Frequency arrangement for overlapping operating bands

The following information is provided in order to assist a UE derive the DL EARFCN and UL EARFCN in a multi-band environment, in which multiple overlapping operating bands may be indicated in the fields *freqBandIndicator* and *multiBandInfoList* of SIB1.

The overlapping bands, independent of release, which may be indicated in a cell are shown in Table A-1 for applicable E-UTRA bands. The DL EARFCN and UL EARFCN are derived according to [2].

**Table A-1: Overlapping bands (multi-band environments) for each E-UTRA band**

E-UTRA Operating Band	Overlapping E-UTRA operating bands	Duplex Mode
2	25	FDD
3	9	FDD
4	10	FDD
5	18, 19, 26	FDD
9	3	FDD
10	4	FDD
12	17	FDD
17	12	FDD
18	5, 26, 27	FDD
19	5, 26	FDD
25	2	FDD
26	5, 18, 19, 27	FDD
27	18, 26	FDD
33	39	TDD
38	41	TDD
39	33	TDD
41	38	TDD

## Annex B (informative): Change history

**Table B.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 void section as section 7.	0.1.0	0.2.0
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
12-2010	RP-50	RP-101344	016	CR creating the rel-10 of the 36.307 specification	9.2.0	9.3.0
12-2010	RP-50	RP-101356	012	Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.2.0	9.3.0
12-2010	RP-50			Raised to Rel-10 with no technical change	9.3.0	10.0.0
01-2011				Correction to history table	10.0.0	10.0.1
06-2011	RP-52	RP-110804	015	Add Expanded 1900 MHz Band (Band 25) in 36.307	10.0.1	10.1.0
06-2011	RP-52	RP-110812	022	Add 2GHz S-Band (Band 23) in 36.307 (Rel 10)	10.0.1	10.1.0
09-2011	RP-53	RP-111255	025	Add Band 22 for LTE/UMTS 3500 (FDD) to TS 36.307	10.1.0	10.2.0
03-2012	RP-55	RP-120305	029	Introduction of Band 26/XXVI to TS 36.307	10.2.0	11.0.0
2012-06	RP-56	RP-120789	043	Introduction of CA_1A-19A to TS 36.307	11.0.0	11.1.0
2012-06	RP-56	RP-120793	049	Introduction of APAC700(FDD) into TS 36.307 Rel-11	11.0.0	11.1.0
2012-06	RP-56	RP-120793	053	Introduction of APAC700(TDD) into TS 36.307 Rel-11	11.0.0	11.1.0
2012-06	RP-56	RP-120791	057	Introduction of e850_LB (Band 27) to TS 36.307	11.0.0	11.1.0
2012-09	RP-57	RP-121335	059	Introduction of CA_1A-21A to TS 36.307	11.1.0	11.2.0
2012-09	RP-57	RP-121295	070r1	Relation between EARFCN for overlapping bands with multiple FBI indication	11.1.0	11.2.0
2012-09	RP-57	RP-121338	072	36.307 CR for LTE_CA_B7	11.1.0	11.2.0
2012-09	RP-57	RP-121337	073	TS 36.307 CR for CA_38	11.1.0	11.2.0
2012-09	RP-57	RP-121327	074	Introduction of CA_B7_B20 in 36.307	11.1.0	11.2.0
2012-09	RP-57	RP-121329	075	Introduction of CA band combination Band3 + Band5 to TS 36.307	11.1.0	11.2.0
2012-09	RP-57	RP-121331	076	Introduction of CA_3A-20A to TS 36.307	11.1.0	11.2.0
2012-09	RP-57	RP-121334	077	Add requirements for inter-band CA of B_1-18 in TS36.307	11.1.0	11.2.0
2012-09	RP-57	RP-121333	078	Introduction of CA_8_20 RF requirements into TS36.307	11.1.0	11.2.0
2012-09	RP-57	RP-121324	079	Introduction of CA_B3_B7 in 36.307	11.1.0	11.2.0
2012-12	RP-58	RP-121890	086	Introduction of CA_4A-5A into 36.307	11.2.0	11.3.0
2012-12	RP-58	RP-121889	088	Introduction of CA band combination Band4 + Band13 to TS 36.307 (Rel-11)	11.2.0	11.3.0
2012-12	RP-58	RP-121896	091	Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307	11.2.0	11.3.0
2012-12	RP-58	RP-121884	092	Introduction of CA_3A-8A to TS 36.307	11.2.0	11.3.0
2012-12	RP-58	RP-121894	093	Introduction of CA_B5_B12 in 36.307	11.2.0	11.3.0
2012-12	RP-58	RP-121887	095	Introduction of CA_4-12 into TS 36.307 (Rel-11)	11.2.0	11.3.0
2012-12	RP-58	RP-121882	097	[Rel-11] Introduction of inter-band CA_11-18 into TS36.307	11.2.0	11.3.0
2012-12	RP-58	RP-121861	099	Release-independent implementation of carrier aggregation configuration CA_4-7	11.2.0	11.3.0
2012-12	RP-58	RP-121901	101	Introduction of Band 29	11.2.0	11.3.0
2012-12	RP-58	RP-121718	0102	Introduction of CA band combination Band2 + Band17 to TS 36.307 (Rel-11)	11.2.0	11.3.0
2012-12	RP-58	RP-121720	0104	Introduction of CA band combination Band4 + Band17 to TS 36.307 (Rel-11)	11.2.0	11.3.0
2013-06	RP-60	RP-130771	107r1	Introduction of CA 1+8 into TS36.307(Rel-11)	11.3.0	11.4.0
2013-06	RP-60	RP-130782	110r1	Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-11	11.3.0	11.4.0
2013-06	RP-60	RP-130785	113	Introduction of LTE Advanced inter-band Carrier Aggregation of Band 23 and Band 29 to TS 36.307 (Rel-11)	11.3.0	11.4.0
2013-06	RP-60	RP-130779	116	Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 26 to TS 36.307 (Rel-11)	11.3.0	11.4.0
2013-06	RP-60	RP-130777	119	Introduction of CA_3A-19A to TS 36.307	11.3.0	11.4.0
2013-06	RP-60	RP-130783	122	Introduction of CA_19A-21A to TS 36.307	11.3.0	11.4.0
2013-06	RP-60	RP-130787	128	Introduction of CA_4A-4A into 36.307 Rel-11	11.3.0	11.4.0
2013-06	RP-60	RP-130775	130	Introduction of CA_2A-13A to TS 36.307	11.3.0	11.4.0
2013-06	RP-60	RP-130791	135r1	Introduction of Band 30	11.3.0	11.4.0
2013-06	RP-60	RP-130790	142	Introduction of LTE 450 into TS 36.307 R11	11.3.0	11.4.0



09-2013	RP-61	RP-131300	152	36.307 CR for LTE_CA_C_B3 (Rel-11)	11.4.0	11.5.0
09-2013	RP-61	RP-131303	155	Band 31 release independence for UE demodulation performance	11.4.0	11.5.0
09-2013	RP-61	RP-131285	158	[Rel-11] Modify requirements for CA_1A-18A in TS36.307	11.4.0	11.5.0
09-2013	RP-61	RP-131296	159	[Rel-11] Add requirements for CA_1A-26A into TS36.307	11.4.0	11.5.0
09-2013	RP-61	RP-131297	162	Introduction of CA_2A-4A to TS 36.307	11.4.0	11.5.0
09-2013	RP-61	RP-131298	166	Introduction of inter-band CA Band 2+5	11.4.0	11.5.0

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# History

<b>Document history</b>		
V11.2.0	November 2012	Publication
V11.3.0	February 2013	Publication
V11.4.0	July 2013	Publication
V11.5.0	October 2013	Publication