# ETSI TS 136 307 V13.11.0 (2019-01)



LTE;

Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 13.11.0 Release 13)



Reference RTS/TSGR-0436307vdb0

Keywords

LTE

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- x the first digit:
  - 1 presented to TSG for information;
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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
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### 1 Scope

The present document specifies requirements for Rel-13 UEs supporting release independent features like:

- additional E-UTRA operating frequency bands on top of Rel-13 of TS 36.101 [2] and TS 36.133 [3];
- additional E-UTRA CA configurations (intra-band/inter-band; also for LAA) on top of Rel-13 of TS 36.101 [2] and TS 36.133 [3];
- additional operating bands and/or CA configurations for specific features (like UE category 0, M1, NB1);
- other release independent features (like 4Rx antenna port, high speed scenario, 8Rx antenna port).

### 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: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Radio Transmission and Reception".
  - NOTE: The considered release is given in the text of the present document that uses [2].
- [3] 3GPP TS 36.133: "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for Support of Radio Resource Management".

NOTE: The considered release is given in the text of the present document that uses [3].

[4] 3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities".

NOTE: The considered release is given in the text of the present document that uses [4].

[5] Void.

### 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

release independent: applicable to some frozen releases, starting from a certain release Rel-M

NOTE 1: Normally, a feature is introduced only in the latest open release Rel-N and future releases are based on the previous one so that future releases inherit the requirements of this feature. Introducing a feature "in a release independent way from Rel-M onwards" (M<N) means it was decided by TSG RAN that this feature would be also beneficial in previous, already frozen releases starting with Rel-M until Rel-(N-1). In order to avoid touching TS 36.101 [2] or TS 36.133 [3] of these frozen releases, the corresponding requirements are captured in TS 36.307 via pointers to [2] or [3] of the release in which the feature was introduced.

NOTE 2: Release independent does not mean applicable to all releases.

### 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP 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 3GPP TR 21.905 [1].

4Rx	4 UE receiver antenna ports
CA	Carrier Aggregation
CRS	Cell-specific Reference Signal
CSI	Channel State Indicator
FDD	Frequency Division Duplex
LAA	License-Assisted Access
RRC	Radio Resource Control
RRM	Radio Resource Management
TDD	Time Division Duplex
UE	User Equipment

### 3.3 Symbols

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

Ν	Release in which a feature is introduced into TS 36.101 [2] or TS 36.133 [3]
М	Release from which onwards (including release M) a feature is release independent

### 3A Release independent features

### 3A.0 General

TSG-RAN has agreed for certain features (see the following clauses) to introduce them in a "release independent way".

This means for each feature:

- it is "introduced" in a release N, i.e. TS 36.101 [2] and TS 36.133 [3] of release N define certain UE requirements for this feature; the feature is indicated in the tables of the following clauses;
- it is "release independent" starting from a release M (M<N); M for the given feature is provided in the tables of the following clauses;
- UEs supporting this feature have to fulfill additional requirements in release M or higher which are specified in one or more Annexes of TS 36.307 of release N; the applicable Annexes for a given feature are provided in the tables of the following clauses.

The applicable UE Categories are specified in TS 36.306 [4] according to the release to which the UE conforms.

### 3A.1 Additional E-UTRA operating bands

Requirements for a Rel-13 UE for additional E-UTRA operating bands compared to TS 36.101 Rel-13 [2] are introduced via this clause.

Feature	Duplex- mode	Release independent from	Requirements to be fulfilled (see TS 36.307 of the release in which the band was introduced)
Operating bands, band number <= 64, Power Class 3	FDD, TDD	Rel-8	Table B.2.1-1, Table B.4.1-1
Operating bands, band number > 64, Power Class 3	FDD, TDD	Rel-9	Table B.2.1-1, Table B.4.1-1
Operating bands, NS-value > 32	FDD, TDD	Rel-10	Table B.2.1-1, Table B.4.1-1
Asymmetric operating bands, Power Class 3	FDD	Rel-10	Table B.2.1-1, Table B.4.1-1
Operating bands, band number <= 64, Power Class 1	FDD	Rel-10	Table B.2.1-1, Table B.4.1-1
Operating bands, Power Class 2	TDD	Rel-10	Table B.2.1-1, Table B.4.1-1

Table 3A.1-1: E-UTRA operating bands and UE power class

For example, Band 19 was introduced 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 (see corresponding Annexes of TS 36.307 Rel-9 which will point to the requirements in the Rel-9 of TS 36.101 [2] or TS 36.133 [3] to be fulfilled), such as the radio frequency and radio resource management requirements for the Band 19.

### 3A.2 Additional E-UTRA CA configurations

Requirements for a Rel-13 UE for additional E-UTRA CA configurations compared to TS 36.101 Rel-13 [2] are introduced via this clause.

Feature	DL/UL	CA BW Class	Duplex- mode	Release independent from	requirements to be fulfilled (see 36.307 of the REL in which the CA configuration and the power class were introduced)		
		В	FDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1		
		С	FDD, TDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1		
lates hand continuous	UL	D	TDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1		
Intra-band contiguous CA configurations, power class 3		Е	TDD	Rel-11	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1		
power class 5		F	TDD	Rel-12	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1		
		В	FDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1		
		C, D	FDD, TDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1		
Intra-band contiguous CA configurations, UL power class 2		С	TDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1		
NOTE1: The duplex mode "FDD, TDD" refers to a CA configuration composed by only FDD bands or only TDD bands, respectively.							

#### Table 3A.2-1: Intra-band contiguous CA configurations and UE CA power class

Feature	DL/UL	number of bands	number of CCs	CA BW Classes	Duplex- mode	Release independent from	requirements to be fulfilled (see 36.307 of the REL in which the CA configuration was introduced)			
			2-4	A, B, C	FDD, TDD	Rel-10	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1			
		2	2-5	D, E	FDD, TDD	Rel-11	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1			
			2-5	A, B, C, D, E	FDD and TDD	Rel-12	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1			
			3	А	FDD, TDD	Rel-10	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1			
	DL	3	3	3	3	3-5	B, C, D	FDD, TDD	Rel-11	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1
Inter-band CA			3	А	FDD and TDD	Rel-12	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1			
configurations		4	4-5	A, C	FDD, TDD	Rel-11	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1			
			4-5		FDD and TDD	Rel-12	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1			
				E	5	A	FDD, TDD	Rel-12	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1	
		5	5		FDD and TDD	Rel-12	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1			
	UL	UL 2		2-4	A, C	FDD, TDD	Rel-11	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1		
			2-3	A, C	FDD and TDD	Rel-12	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1			
<ul> <li>NOTE1: The duplex mode "FDD, TDD" refers to a CA configuration composed by only FDD bands or only TDD bands, respectively. The duplex mode "FDD and TDD" refers to a CA configuration including both FDD and TDD bands.</li> <li>NOTE2: CA configurations involving downlink only operation in Band 46 are release independent from Rel-13 opwards (LAA was introduced in Rel 12). The 10 MHz channel bandwidth for Band 46 was introduced in TS</li> </ul>										

Table 3A.2-2: Inter-band	CA	configurations
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For example, CA configuration CA\_1A-19A was introduced 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 (see corresponding Appears of TS 36 307 Rel 11

36.101 Rel-14 [2] and can be implemented in a release independent way from Rel-13.

onwards (LAA was introduced in Rel-13). The 10 MHz channel bandwidth for Band 46 was introduced in TS

additionally conform to some parts of the Release 11 specifications (see corresponding Annexes of TS 36.307 Rel-11 which will point to the requirements in the Rel-11 of TS 36.101 [2] or TS 36.133 [3] to be fulfilled), such as the radio frequency and radio resource management requirements for the CA configuration CA\_1A-19A.

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Feature	DL/UL	number of sub- blocks	number of CCs	CA BW Classes	Duplex- mode	Release independent from	requirements to be fulfilled (see 36.307 of the REL in which the CA configuration was introduced)
Intra-band non- contiguous CA configurations	DL	2	2-5	A, C, D	FDD, TDD	Rel-11	Table B.2.3-1, Table B.3.2-1, Table B.4.5-1
		3	3-5	A, C	FDD, TDD	Rel-11	Table B.2.3-1, Table B.3.2-1, Table B.4.5-1
	UL	2	2	А	FDD	Rel-11	Table B.2.3-1, Table B.3.2-1, Table B.4.5-1
NOTE 1: The duplex mode "FDD, TDD" refers to a CA configuration composed by only FDD bands or only TDD bands, respectively.							

Table 3A.2-3: Intra-band non-contiguous CA configurations

# 3A.3 Additional operating bands and/or CA configurations for specific features

For a specific feature introduced in an earlier release, it may be decided in a later release to apply this specific feature in a release independent way for additional operating bands and/or CA configurations. For a Rel-13 UE corresponding requirements are then introduced via this clause.

Feature	Release independent from	Requirements to be fulfilled (see 36.307 of the REL when the feature was introduced)	Further information
Operating bands for UE category 0	Rel-12	Table B.2.9-1, Table B.3.5-1, Table B.4.10-1	Rel-14 WI LC_MTC_LTE_cat0_B25_B26-Core introduced RF, RRM, demodulation and CSI requirements for bands 25 and 26, see Table B.2.9-1, Table B.3.5-1, Table B.4.10-1
Operating bands for UE category M1	Rel-13	Table B.2.10-1, Table B.3.6- 1, Table B.4.11-1	Rel-14 WI LTE_MTCe2_L1_cat1_B25_B40-Core introduced RF, RRM, demodulation and CSI requirements for bands 25 and 40, see Table B.2.10-1, Table B.3.6-1, Table B.4.11-1. Rel-15 WI LTE_bands_R15_M1_NB1-Core introduced RF, RRM, demodulation and CSI requirements for bands 14 and 71, see Table B.2.10-1, Table B.3.6-1, Table B.4.11-1.
Operating bands for UE category NB1	Rel-13	Table B.2.8-1, Table B.3.7-1, Table B.4.9-1	Rel-14 WI NB_IOT_R14_bands introduced RF, RRM and demodulation requirements for bands 11, 21, 25, 31, 70, see Table B.2.8-1, Table B.3.7- 1, Table B.4.9-1. Rel-15 WI LTE_bands_R15_M1_NB1-Core introduced RF, RRM and demodulation for bands 4, 14 and 71 see Table B.2.8-1, Table B.3.7-1, Table B.4.9-1. Rel-16 WI LTE_bands_R16_M1_NB1 introduced RF, RRM, demodulation for band 65, see Table B.2.8-1, Table B.3.7-1, Table B.4.9-1.

Table 3A.3-1: Operating bands for specific features

Feature	Release independent from	Requirements to be fulfilled (see 36.307 of the REL when the feature was introduced)	Further information

Table 3A.3-2: CA configurations for specific features

### 3A.4 Other release independent features

This clause covers requirements for a Rel-13 UE coming from all other release independent features that are not covered under clause 3A.1, 3A.2 and 3A.3, e.g. generic baseband requirements or requirements that are not band/CA configuration specific.

		Requirements to be	Further information
Feature	Release independent from	fulfilled (see 36.307 of the REL when the feature was introduced)	
RF and performance requirements for 4Rx UEs	Rel-10	Table C.1-1, Table C.2-1 for single carrier and Table C.1-2, Table C.2-2 for CA	REL-13 WI LTE_4Rx_AP_DL introduced: - single carrier RF requirements for bands 1, 2, 3, 7, 20, 39, 41, 42: see Table C.1-1 - CA RF requirements for CA_3A-42A and other 1UL CA configurations (see TS 36.101 REL-13 [2] Table 7.3.1A-0a NOTE 20): see Table C.1-2 - single carrier performance requirements for demodulation and CSI: see Table C.2-1 REL-14 WI LTE_4Rx_AP_DL_bands introduced: - single carrier RF requirements for band 35, 40: see Table C.1-1 - CA RF requirements for some further 1UL CA configurations (see TS 36.101 REL-14 [2]): see Table C.1-2 REL-14 WI LTE_4Rx_AP_DL_CA introduced: - CA RF requirements for some 2DL/2UL CA configurations (see TS 36.101 REL-14 [2]): see Table C.1-2 - CA performance requirements for demodulation/SDR and CSI: see Table C2-2 REL-15 WI LTE_4Rx_AP_DL_bands_R15 introduced: - single carrier RF requirements for some further 1UL CA configurations (see TS 36.101 REL-14 [2]): see Table C.1-2 - CA performance requirements for demodulation/SDR and CSI: see Table C2-2 REL-15 WI LTE_4Rx_AP_DL_bands_R15 introduced: - single carrier RF requirements for band 4, 34, 43, 66: see Table C.1-1 - CA RF requirements for some further 1UL CA configurations (see TS 36.101 REL-15 [2]): see Table C.1-2
RF and performance requirements for 8Rx UEs	Rel-13	Table E.1-1for single carrier and Table E.1-2 for CA	REL-15 WI LTE_8Rx_AP_DL introduced: - single carrier RF requirements for band 41, 42,43: see Table E.1-1 - CA RF requirements for some further 1UL CA configurations (see TS 36.101 REL-15 [2]): see Table E.1-2
demodulation requirements for high speed scenario	Rel-13 (NOTE 1)	Table D.1-1, Table D.2-1	Rel-14 WI LTE_high_speed introduced band independent RRM and demodulation requirements. see Table D.1-1, Table D.2-1
	NOTE 1: Rel-13 UEs supporting the high speed scenario are assumed to read the Rel-14 high speed scenario information, which is broadcast to all UEs.		

## 4-292 Void

### 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 multiband 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 TS 36.101 Rel-13 [2].

E-UTRA Operating Band	Overlapping E-UTRA operating bands	Duplex Mode
2	25	FDD
3	9	FDD
4	10, 66	FDD
5	18, 19, 26	FDD
9	3	FDD
10	4, 66	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
66	4, 10	FDD

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

### Annex B (normative): Common Requirements for bands or CA

### B.1 Purpose of annex

The purpose of Annex B is to group the requirements that are common for several bands or CA configurations in this specification and use the common tables as references.

### B.2 Common RRM requirements

# B.2.1 Common RRM requirements for a release independent band

The requirements and test cases listed in Table B.2.1-1 are specified in TS 36.133 Rel-13 [3].

Section / Clause	Description	
4 Note 1	E-UTRAN RRC_IDLE state mobility	
5	E-UTRAN RRC_CONNECTED state mobility	
6 Note 2	RRC Connection Mobility Control	
7 Note 3	Timing and signalling characteristics	
8 Note 4	UE Measurements Procedures in RRC_CONNECTED State	
9 Note 5	Measurements performance requirements for UE	
A.4 Note 1	E-UTRAN RRC_IDLE state	
A.5	E-UTRAN RRC CONNECTED Mode Mobility	
A.6 Note 2	RRC Connection Control	
A.7 Note 3	Timing and Signalling Characteristics	
A.8 Note 4	UE Measurements Procedures	
A.9 Note 5	Measurement Performance Requirements	
<ul> <li>for supporting Tests).</li> <li>NOTE 2: All requirements</li> <li>for supporting</li> </ul>	<ul> <li>NOTE 1: All requirements and the corresponding test cases shall apply, except:         <ul> <li>for supporting the corresponding band in Rel-9 and below: clause 4.3 (Minimization of Drive Tests).</li> </ul> </li> <li>NOTE 2: All requirements and the corresponding test cases shall apply, except:         <ul> <li>for supporting the corresponding band in Rel-8: clauses 6.3 (RRC Connection Release with Redirection), 6.4 (CSG Proximity Indication for E-UTRAN and UTRAN).</li> </ul> </li> </ul>	
	and corresponding test cases shall apply, except those defined in sections 7.4 and	
NOTE 4: All requirements - for supporting Frequency R	<ul> <li>All requirements and corresponding test cases shall apply, except:</li> <li>for supporting the corresponding band in Rel-8: clauses 8.1.2.5 (E-UTRAN OTDOA Intra- Frequency RSTD Measurements), 8.1.2.6 (E-UTRAN Inter-Frequency OTDOA Measurements), 8.1.2.7 (E-UTRAN E-CID Measurements).</li> </ul>	
NOTE 5: All requirements - for supporting 9.1.10 (Refer - for supporting requirement lo≤-70dBm is - for supporting	and corresponding test cases shall apply, except: g the corresponding band in Rel-8: clauses 9.1.9 (UE Rx–Tx time difference), ence Signal Time Difference). g the corresponding band in Rel-11 or below: the RSRP absolute accuracy under normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when ±6dB. g the corresponding band in Rel-11 or below: the interfrequency RSRP relative	
NOTE 6: In addition to the those defined for - carrier aggre - for supporting measuremen - for supporting measuremen		

 Table B.2.1-1: Common RRM requirements for a release independent band

# B.2.2 Common RRM requirements for an intra-band contiguous CA configuration

The requirements and test cases listed in Table B.2.2-1 are specified in TS 36.133 Rel-13 [3].

Section / Clause	Description
7.1	UE transmit timing
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation
7.8	Interruptions with Carrier Aggregation
8.2	Capabilities for Support of Event Triggering and Reporting Criteria
8.3	Measurements for E-UTRA carrier aggregation
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation
9.1.11 Note 3	Carrier aggregation measurement accuracy
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation
A.7	Timing and Signalling Characteristics
A.8	UE Measurements Procedures
A.9 Note 3	Measurement Performance Requirements
<ul> <li>NOTE 1: Only requirements and test cases defined for intra-band contiguous carrier aggregation shall apply.</li> <li>NOTE 2: In addition to the exceptions above, all requirements and test cases in this table shall apply, except:</li> <li>for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12.</li> <li>NOTE 3: For supporting the corresponding band in Rel-11 or below: the RSRP absolute accuracy requirement under normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when lo≤-70dBm is ±6dB.</li> <li>For supporting the corresponding band in Rel-11 or below: the interfrequency RSRP relative accuracy requirement under normal conditions in table 9.1.3.2-1 is ±6dB.</li> </ul>	

Table B.2.2-1: Common RRM requirements for a release independent single-band CA configuration

### B.2.3 Common RRM requirements for an intra-band noncontiguous CA with single uplink configuration

The requirements and test cases listed in Table B.2.3-1 are specified in [3] TS 36.133 Rel-13.

Table B.2.3-1: Common RRM rec	juirements for a release inde	ependent single-band CA	configuration

Section / Clause	Description
7.1	UE transmit timing
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation
7.8	Interruptions with Carrier Aggregation
8.2	Capabilities for Support of Event Triggering and Reporting Criteria
8.3	Measurements for E-UTRA carrier aggregation
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation
9.1.11 Note 3	Carrier aggregation measurement accuracy
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation
A.7	Timing and Signalling Characteristics
A.8	UE Measurements Procedures
A.9 Note 3	Measurement Performance Requirements
<ul> <li>NOTE 1: Only requirements and test cases defined for intra-band non-contiguous carrier aggregation with single uplink shall apply.</li> <li>NOTE 2: In addition to the exceptions above, all requirements and test cases in this table shall apply, excep - for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12.</li> <li>NOTE 3: - For supporting the corresponding band in Rel-11 or below: the RSRP absolute accuracy requirement under normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when los 70dBm is ±6dB</li> <li>for supporting the corresponding band in Rel-11 or below: the interfrequency RSRP relative accuracy requirement under normal conditions in table 9.1.3.2-1 is ±6dB.</li> </ul>	

# B.2.4 Common RRM requirements for an inter-band CA with single uplink configuration

The requirements and test cases listed in Table B.2.4-1 are specified in TS 36.133 Rel-13 [3].

## Table B.2.4-1: Common RRM requirements for a release independent band-combination CA configuration

Section / Clause	Description	
7.1	UE transmit timing	
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation	
7.8	Interruptions with Carrier Aggregation	
8.2	Capabilities for Support of Event Triggering and Reporting Criteria	
8.3	Measurements for E-UTRA carrier aggregation	
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation	
9.1.11 Note 3	Carrier aggregation measurement accuracy	
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation	
A.7	Timing and Signalling Characteristics	
A.8	UE Measurements Procedures	
A.9 Note 3	Measurement Performance Requirements	
NOTE 1: Only requirements and test cases defined for inter-band with single uplink carrier aggregation shall apply.		
NOTE 2: In addition to the exceptions above, all requirements and test cases in this table shall apply, except: - for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12.		
requirement under 70dBm is ±6dB.	requirement under normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when lo≤-	
accuracy requirement under normal conditions in table 9.1.3.2-1 is ±6dB.		

# B.2.5 Common RRM requirements for an inter-band CA with dual uplink configuration

The requirements and test cases listed in Table B.2.5-1 are specified in TS 36.133 Rel-13 [3].

Section / Clause	Description	
7.1	UE transmit timing	
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation	
7.8	Interruptions with Carrier Aggregation	
7.17	Maximum Transmission Timing Difference in Dual Connectivity	
8.2	Capabilities for Support of Event Triggering and Reporting Criteria	
8.3	Measurements for E-UTRA carrier aggregation	
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation	
9.1.11 Note 3	Carrier aggregation measurement accuracy	
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy	
	Requirements for Carrier Aggregation	
A.7	Timing and Signalling Characteristics	
A.8	UE Measurements Procedures	
A.9 Note 3	Measurement Performance Requirements	
	and test cases defined for inter-band with dual uplink carrier aggregation shall	
apply.	en en de seu a de la constance de la constance de la debie de la constance de la constance de la constance de l	
	Acceptions above, all requirements and test cases in this table shall apply, except:	
	<ul> <li>for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12.</li> <li>IOTE 3: - For supporting the corresponding band in Rel-11 or below: the RSRP absolute accuracy</li> </ul>	
requirement under normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when lo		
70dBm is ±6dB.	· · · · · · · · · · · · · · · · · · ·	
<ul> <li>for supporting the support of the supp</li></ul>	he corresponding band in Rel-11 or below: the interfrequency RSRP relative	
accuracy requirement under normal conditions in table 9.1.3.2-1 is ±6dB.		

## Table B.2.5-1: Common RRM requirements for a release independent band-combination CA configuration with dual uplink

### B.2.6 Common RRM requirements for an intra-band noncontiguous CA with dual uplink configuration

The requirements and test cases listed in Table B.2.6-1 are specified in TS 36.133 Rel-13 [3].

Table B.2.6-1: Common RRM requirements for a release independent single-band CA configuration
with dual uplink

Section / Clause	Description
7.1	UE transmit timing
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation
7.8	Interruptions with Carrier Aggregation
7.17	Maximum Transmission Timing Difference in Dual Connectivity
8.2	Capabilities for Support of Event Triggering and Reporting Criteria
8.3	Measurements for E-UTRA carrier aggregation
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation
9.1.11 Note 3	Carrier aggregation measurement accuracy
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation
A.7	Timing and Signalling Characteristics
A.8	UE Measurements Procedures
A.9 Note 3	Measurement Performance Requirements
dual uplinks shall a	
<ul> <li>NOTE 2: In addition to the exceptions above, all requirements and test cases in this table shall apply, except:</li> <li>for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12.</li> <li>NOTE 3: For supporting the corresponding band in Rel-11 or below: the RSRP absolute accuracy requirement under normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when lo≤-70dBm is ±6dB.</li> </ul>	
<ul> <li>for supporting t</li> </ul>	he corresponding band in Rel-11 or below: the interfrequency RSRP relative ent under normal conditions in table $9.1.3.2-1$ is $\pm 6$ dB.

# B.2.7 Common RRM requirements for an inter-band CA with three uplink configuration

The requirements and test cases listed in Table B.2.7-1 are specified in [3] TS 36.133 Rel-13.

## Table B.2.7-1: Common RRM requirements for a release independent band-combination CA configuration with three uplink

Section / Clause	Description	
7.1	UE transmit timing	
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation	
7.8	Interruptions with Carrier Aggregation	
7.17	Maximum Transmission Timing Difference in Dual Connectivity	
8.2	Capabilities for Support of Event Triggering and Reporting Criteria	
8.3	Measurements for E-UTRA carrier aggregation	
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation	
9.1.11 Note 3	Carrier aggregation measurement accuracy	
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation	
NOTE 1: Only requirements defined with a three	defined for three uplink carrier aggregation shall apply. There are no test cases e uplink carrier aggregation configuration.	
	<ul> <li>E 2: In addition to the exceptions above, all requirements and test cases in this table shall apply, except:</li> <li>for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12.</li> </ul>	
	the corresponding band in Rel-11 or below: the RSRP absolute accuracy normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when Io≤-	
	he corresponding band in Rel-11 or below: the interfrequency RSRP relative ent under normal conditions in table 9.1.3.2-1 is ±6dB.	

- B.2.8 Void
- B.2.9 Void
- B.2.10 Void

### B.3 Common UE performance requirements

B.3.1 Void

# B.3.2 Common UE performance requirements and tests for different CA configurations and combination sets

The requirements and test cases listed in Table B.3.2-1 are specified in TS 36.101 Rel-13 [2].

Section / Clause	Description
8.2.1.1.1	Single-antenna port performance (FDD)
8.2.2.1.1	Single-antenna port performance (TDD)
8.2.3.1.1	Single-antenna port performance (TDD-FDD CA)
8.2.1.3.1	Open-loop spatial multiplexing performance - Minimum Requirement 2 Tx Antenna Port (FDD)
8.2.2.3.1	Open-loop spatial multiplexing performance - Minimum Requirement 2 Tx Antenna Port (TDD)
8.2.3.3.1	Open-loop spatial multiplexing performance - Minimum Requirement 2 Tx Antenna Port (TDD-FDD CA)
8.2.1.3.1A	Open-loop spatial multiplexing performance - Soft buffer management test (FDD)
8.2.2.3.1A	Open-loop spatial multiplexing performance - Soft buffer management test (TDD)
8.2.3.3.1A	Open-loop spatial multiplexing performance - Soft buffer management test (TDD-FDD CA)
8.2.1.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (FDD)
8.2.2.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (TDD)
8.2.3.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (TDD-FDD CA)
8.2.1.7	Carrier aggregation with power imbalance (FDD)
8.2.1.8	Intra-band non-contiguous carrier aggregation with timing offset (FDD)
8.2.2.7	Carrier aggregation with power imbalance (TDD)
8.7.1	Sustained downlink data rate provided by lower layers (FDD)
8.7.2	Sustained downlink data rate provided by lower layers (TDD)
8.7.5	Sustained downlink data rate provided by lower layers (TDD-FDD CA)
9.6.1.1	Additional requirements for carrier aggregation - Periodic reporting on multiple cells (Cell Specific Reference symbols) (FDD)
9.6.1.2	Additional requirements for carrier aggregation - Periodic reporting on multiple cells (Cell Specific Reference symbols) (TDD)
9.6.1.3	Additional requirements for carrier aggregation - Periodic reporting on multiple cells (Cell Specific Reference symbols) (TDD-FDD CA)
Section 8.1.2.3 and	requirements for different CA configurations and bandwidth combination sets is specified in

## Table B.3.2-1: Common UE performance requirements and tests for release independent CA configurations and combination sets

- B.3.3 Void
- B.3.4 Void
- B.3.5 Void
- B.3.6 Void

### B.4 Common UE RF requirements

# B.4.1 Common UE RF requirements for a release independent band

The requirements and test cases listed in Table B.4.1-1 are specified in TS 36.101 Rel-13 [2].

Section / Clause	Description
5.5	Operating bands
5.6	Channel bandwidth
5.7	Channel arrangement
6.2	Transmit power
6.3	Output power dynamics
6.5	Transmit signal quality
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
7.9	RX spurious emissions

Table B.4.1-1: Common UE RF requirements for a release independent band

# B.4.2 Common UE RF requirements for an intra-band contiguous CA configuration

The requirements and test cases listed in Table B.4.2-1 are specified in TS 36.101 Rel-13 [2].

5.5AOperating bands for CA5.6AChannel bandwidths per operating band for CA5.7.1AChannel spacing for CA5.7.2AChannel raster for CA5.7.4ATX-RX frequency separation for CA6.2.2AUE maximum output power for CA6.2.3AUE maximum output power with additional requirements for CA6.2.4AUE maximum output power for CA6.2.5AConfigured transmitted power for CA6.3.2AUE Minimum utput power for CA6.3.3AUE Transmit OFF power for CA6.3.4AON/OFF time mask for CA6.3.5APower control for CA6.5.1AFrequency error for CA6.5.2ACocipied bandwidth for CA6.5.2AOccupied bandwidth for CA6.5.1AFrequency error for CA6.5.1AFrequency error for CA6.6.2AAdditional Spectrum emission mask for CA6.6.2.1ASpectrum emission mask for CA6.6.2.1ASpectrum emission mask for CA6.6.2.2AAdditional Spectrum emission mask for CA6.6.3.3AE-UTRA ACLR for CA6.6.3.3AE-UTRA ACLR for CA6.6.3.3AAdditional spurious emissions for CA6.3.3AAdditional spurious emissions for CA7.1AMaimum input level for CA7.1A<	Section / Clause	Description
5.7.1A       Channel spacing for CA         5.7.2A       Channel raster for CA         5.7.4A       TX-RX frequency separation for CA         6.2.2A       UE maximum output power for CA         6.2.3A       UE maximum output power for modulation/channel bandwidth for CA         6.2.4A       UE maximum output power for CA         6.2.5A       Configured transmited power for CA         6.3.3A       UE Transmit OFF power for CA         6.3.3A       UE Transmit OFF power for CA         6.3.3A       UE Transmit OFF power for CA         6.3.4A       ON/OFF time mask for CA         6.3.5A       Power control for CA         6.3.5A       Power control for CA         6.5.1A       Frequency error for CA         6.5.2A       Transmit modulation quality for CA         6.6.1A       Occupied bandwidth for CA         6.6.2.1A       Spectrum emission mask for CA         6.6.2.2A       Additional Spectrum Emission mask for CA         6.6.3.3A       E-UTRA ACLR for CA         6.6.3.3A       E-UTRA ACLR for CA         6.6.3.3A       Additional spurious emissions for CA         6.6.3.3A       Additional spurious emissions for CA         6.6.3.3A       Additional spurious emission for CA         6.6.3.3A	5.5A	Operating bands for CA
5.7.2AChannel raster for CA5.7.4ATX–RX frequency separation for CA6.2.2AUE maximum output power for CA6.2.3AUE maximum output power for modulation/channel bandwidth for CA6.2.4AUE maximum output power for CA6.3.5AConfigured transmitted power for CA6.3.3AUE Transmitted power for CA6.3.3AUE Transmitted power for CA6.3.4AON/OFF time mask for CA6.3.5APower control for CA6.5.1AFrequency error for CA6.5.2ATransmit modulation quality for CA6.5.1AFrequency error for CA6.5.2ATransmit modulation quality for CA6.6.2.1ASpectrum emission mask for CA6.6.2.3AUTRA ACLR for CA6.6.2.3AE-UTRA ACLR for CA6.6.2.3AFeureney error for CA6.6.3.3AE-UTRA ACLR for CA6.6.3.3AAdditional spectrum Emission for CA6.6.3.3AAdditional spectrum for CA6.3.3AGurine requirements for CA6.3.3AE-UTRA ACLR for CA6.3.3AAdditional spectrum for CA6.3.3AAdditional spectrum for CA6.3.3AAdditional spurious emissions for CA6.3.3AGurine for CA6.3.3AAdditional spurious emission for CA7.1AMaximum input level for CA <td< td=""><td>5.6A</td><td>Channel bandwidths per operating band for CA</td></td<>	5.6A	Channel bandwidths per operating band for CA
5.7.4ATX-RX frequency separation for CA6.2.2AUE maximum output power for CA6.2.3AUE maximum output power for modulation/channel bandwidth for CA6.2.4AUE maximum output power with additional requirements for CA6.2.5AConfigured transmitted power for CA6.3.2AUE Minimum utput power for CA6.3.3AUE Transmit OFF power for CA6.3.4AON/OFF time mask for CA6.5.5APower control for CA6.5.1AFrequency error for CA6.5.2ATransmit modulation quality for CA6.5.1ASpectrum emission mask for CA6.6.2.1ASpectrum emission mask for CA6.6.2.1ASpectrum emission mask for CA6.6.2.1ASpectrum emission mask for CA6.6.2.1ASpectrum envision mask for CA6.6.2.3AUTRA ACLR for CA6.6.2.3ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.3.3AAdditional spurious emissions for CA6.3.3AAdditional spurious emissions for CA6.3.3AAdditional Spurious emission for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA <td>5.7.1A</td> <td>Channel spacing for CA</td>	5.7.1A	Channel spacing for CA
6.2.2AUE maximum output power for CA6.2.3AUE maximum output power for modulation/channel bandwidth for CA6.2.4AUE maximum output power with additional requirements for CA6.2.5AConfigured transmitted power for CA6.3.2AUE Minimum utput power for CA6.3.3AUE Transmit OFF power for CA6.3.4AON/OFF time mask for CA6.3.5APower control for CA6.5.1AFrequency error for CA6.5.2ATransmit modulation quality for CA6.6.1AOccupied bandwidth for CA6.6.2.1ASpectrum emission mask for CA6.6.2.1ASpectrum emission mask for CA6.6.2.3AUTRA ACLR for CA6.6.2.3.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.2.3.3AAdditional spectrum Emission band UE co-existence for CA6.3.1AMinimum requirement for CA6.3.3AAdditional spurious emissions for CA6.3.3AAdditional spurious emission band UE co-existence for CA6.3.3AAdditional spurious emission for CA6.3.3AAdditional spurious emissions for CA6.3.3AAdditional spurious emissions for CA6.3.3AAdditional spurious emission for CA6.3.3AAdditional spurious emission for CA6.3.3AAdditional spurious emission for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow ban	5.7.2A	Channel raster for CA
6.2.3AUE maximum output power for modulation/channel bandwidth for CA6.2.4AUE maximum output power with additional requirements for CA6.2.5AConfigured transmitted power for CA6.3.2AUE Minimum utput power for CA6.3.3AUE Transmit OFF power for CA6.3.4AON/OFF time mask for CA6.3.5APower control for CA6.5.1AFrequency error for CA6.5.2ATransmit modulation quality for CA6.6.1AOccupied bandwidth for CA6.6.2.1ASpectrum emission mask for CA6.6.2.1ASpectrum emission mask for CA6.6.2.3AUTRA ACLR for CA6.6.2.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.3.3AAdditional spectrus emissions for CA6.6.3.1AMinimum requirement for CA6.5.1AFurgace ensistivity for CA6.5.2AITRA ACLR for CA6.6.2.1ASpectrum Emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.6.3.1AMinimum requirement for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.2.1AOut-of-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.5.1ASpurious response for CA7.5.1AWideband intermodu	5.7.4A	TX–RX frequency separation for CA
6.2.4AUE maximum output power with additional requirements for CA6.2.5AConfigured transmitted power for CA6.3.2AUE Minimum utput power for CA6.3.3AUE Transmit OFF power for CA6.3.4AON/OFF time mask for CA6.3.5APower control for CA6.5.1AFrequency error for CA6.6.1AOccupied bandwidth for CA6.6.2ATransmit modulation quality for CA6.6.2.1ASpectrum emission mask for CA6.6.2.2AAdditional Spectrum Emission mask for CA6.6.2.3AUTRA ACLR for CA6.6.2.3.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.3.3AAdditional spectrum Emission sfor CA6.6.3.3AAdditional spectrum Emission for CA6.6.3.3AFurre quirements for CA6.6.3.3AAdditional spectrum for CA6.5.3.4Minimum requirements for CA6.6.3.3AAdditional spectrum for CA6.6.3.3AAdditional spectrum for CA6.1AMinimum requirements for CA6.5.3.4Minimum requirements for CA6.5.3.4Durious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.5.1ASpurious response for CA7.5.1A	6.2.2A	UE maximum output power for CA
6.2.5AConfigured transmitted power for CA6.3.2AUE Minimu utput power for CA6.3.3AUE Transmit OFF power for CA6.3.4AON/OFF time mask for CA6.3.5APower control for CA6.5.1AFrequency error for CA6.5.1AFrequency error for CA6.5.2ATransmit modulation quality for CA6.6.2.1AOccupied bandwidth for CA6.6.2.1ASpectrum emission mask for CA6.6.2.3AUTRA ACLR for CA6.6.2.3AE-UTRA ACLR for CA6.6.3.3AAdditional Spectrum Emission sfor CA6.6.3.3AAdditional spurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AOut-of-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1AWideband intermodulation for CA	6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
6.3.2AUE Minimum utput power for CA6.3.3AUE Trasnsmit OFF power for CA6.3.4AON/OFF time mask for CA6.3.5APower control for CA6.5.1AFrequency error for CA6.5.1AFrequency error for CA6.5.2ATransmit modulation quality for CA6.6.1AOccupied bandwidth for CA6.6.2.1ASpectrum emission mask for CA6.6.2.2AAdditional Spectrum Emission mask for CA6.6.2.3.2AUTRA ACLR for CA6.6.3.3AE-UTRA ACLR for CA6.6.3.3ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.5.1ANarrow band blocking for CA7.5.1ANarrow band blocking for CA7.5.1ANarrow band blocking for CA7.5.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.5.1ANarrow band blocking for CA<	6.2.4A	UE maximum output power with additional requirements for CA
6.3.3AUE Trasnsmit OFF power for CA6.3.4AON/OFF time mask for CA6.3.5APower control for CA6.5.1AFrequency error for CA6.5.2ATransmit modulation quality for CA6.6.1AOccupied bandwidth for CA6.6.2.1ASpectrum emission mask for CA6.6.2.1ASpectrum emission mask for CA6.6.2.1AUTRA ACLR for CA6.6.2.3.2AUTRA ACLR for CA6.6.2.3.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.3.3ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	6.2.5A	Configured transmitted power for CA
6.3.4AON/OFF time mask for CA6.3.5APower control for CA6.5.1AFrequency error for CA6.5.2ATransmit modulation quality for CA6.6.1AOccupied bandwidth for CA6.6.2.1ASpectrum emission mask for CA6.6.2.1ASpectrum emission mask for CA6.6.2.2AAdditional Spectrum Emission mask for CA6.6.2.3.2AUTRA ACLR for CA6.6.2.3.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.3.3ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.5.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.5.1ANarrow band blocking for CA7.5.1ANarrow band blocking for CA7.5.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.5.1ANarrow band blocking for CA <tr< td=""><td>6.3.2A</td><td>UE Minimum utput power for CA</td></tr<>	6.3.2A	UE Minimum utput power for CA
6.3.5APower control for CA6.5.1AFrequency error for CA6.5.2ATransmit modulation quality for CA6.6.1AOccupied bandwidth for CA6.6.2.1ASpectrum emission mask for CA6.6.2.2AAdditional Spectrum Emission mask for CA6.6.2.3.2AUTRA ACLR for CA6.6.2.3.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.3.2ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.6.3.3AReference sensitivity for CA7.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	6.3.3A	UE Trasnsmit OFF power for CA
6.5.1AFrequency error for CA6.5.2ATransmit modulation quality for CA6.6.1AOccupied bandwidth for CA6.6.2.1ASpectrum emission mask for CA6.6.2.2AAdditional Spectrum Emission mask for CA6.6.2.3.2AUTRA ACLR for CA6.6.2.3.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.3.3ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.3.1ANarrow band blocking for CA7.5.1ASpurious response for CA7.6.3.1AWideband intermodulation for CA	6.3.4A	ON/OFF time mask for CA
6.5.2ATransmit modulation quality for CA6.6.1AOccupied bandwidth for CA6.6.2.1ASpectrum emission mask for CA6.6.2.2AAdditional Spectrum Emission mask for CA6.6.2.3.2AUTRA ACLR for CA6.6.2.3.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.3.2ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.6.3.3AReference sensitivity for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.1.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1AWideband intermodulation for CA	6.3.5A	Power control for CA
6.6.1AOccupied bandwidth for CA6.6.2.1ASpectrum emission mask for CA6.6.2.2AAdditional Spectrum Emission mask for CA6.6.2.3.2AUTRA ACLR for CA6.6.2.3.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.3.2ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	6.5.1A	Frequency error for CA
6.6.2.1ASpectrum emission mask for CA6.6.2.2AAdditional Spectrum Emission mask for CA6.6.2.3.2AUTRA ACLR for CA6.6.2.3.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.3.2ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	6.5.2A	Transmit modulation quality for CA
6.6.2.2AAdditional Spectrum Emission mask for CA6.6.2.3.2AUTRA ACLR for CA6.6.2.3.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.3.2ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	6.6.1A	Occupied bandwidth for CA
6.6.2.3.2AUTRA ACLR for CA6.6.2.3.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.3.2ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.7.1ASpurious response for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	6.6.2.1A	Spectrum emission mask for CA
6.6.2.3.3AE-UTRA ACLR for CA6.6.3.1AMinimum requirements for CA6.6.3.2ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1AWideband intermodulation for CA	6.6.2.2A	Additional Spectrum Emission mask for CA
6.6.3.1AMinimum requirements for CA6.6.3.2ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	6.6.2.3.2A	UTRA ACLR for CA
6.6.3.2ASpurious emission band UE co-existence for CA6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	6.6.2.3.3A	E-UTRA ACLR for CA
6.6.3.3AAdditional spurious emissions for CA6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	6.6.3.1A	Minimum requirements for CA
6.7.1AMinimum requirement for CA7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	6.6.3.2A	Spurious emission band UE co-existence for CA
7.3.1AReference sensitivity for CA7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	6.6.3.3A	Additional spurious emissions for CA
7.4.1AMaximum input level for CA7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	6.7.1A	Minimum requirement for CA
7.5.1AAdjacent Channel Selectivity (ACS) for CA7.6.1.1AIn-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	7.3.1A	Reference sensitivity for CA
7.6.1.1AIn-band blocking for CA7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	7.4.1A	Maximum input level for CA
7.6.2.1AOut-of-band blocking for CA7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.3.1ANarrow band blocking for CA7.7.1ASpurious response for CA7.8.1AWideband intermodulation for CA	7.6.1.1A	In-band blocking for CA
7.7.1A     Spurious response for CA       7.8.1A     Wideband intermodulation for CA	7.6.2.1A	Out-of-band blocking for CA
7.8.1A Wideband intermodulation for CA	7.6.3.1A	Narrow band blocking for CA
	7.7.1A	Spurious response for CA
7.10.1A Receiver response for CA	7.8.1A	Wideband intermodulation for CA
	7.10.1A	Receiver response for CA

# Table B.4.2-1: Common UE RF requirements for a release independent intra-band contiguous CA configuration

### B.4.3 Common UE RF requirements for an single uplink interband CA configuration

The requirements and test cases listed in Table B.4.3-1 are specified in TS 36.101 Rel-13 [2].

Section / Clause	Description
5.5A	Operating bands for CA
5.6A.1	Channel bandwidths per operating band for CA
5.7.2A	Channel raster for CA
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
6.2.5	Configured transmitted power
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA

Table B.4.3-1: Common UE RF requirements for a release independent inter-band CA configuration

# B.4.4 Common UE RF requirements for an inter-band CA configuration including an operating band without uplink band

The requirements and test cases listed in Table B.4.4-1 are specified in TS 36.101 Rel-13 [2].

## Table B.4.4-1: Common UE RF requirements for a release independent inter-band CA configuration including an operating band without uplink band

Section / Clause	Description
5.5	Operating bands
5.5A	Operating bands for CA
5.6A.1	Channel bandwidths per operating band for CA
5.7	Channel arrangement
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
6.2.5	Configured transmitted power
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA

# B.4.5 Common UE RF requirements for a single uplink intra-band non-contiguous CA configuration

The requirements and test cases listed in Table B.4.5-1 are specified in TS 36.101 Rel-N [2].

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
5.7.2A	Channel raster for CA
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA

#### Table B.4.5-1: Common UE RF requirements for a release independent single uplink intra-band noncontiguous CA configuration

# B.4.6 Common UE RF requirements for Dual uplink inter-band CA configuration

The requirements and test cases listed in Table B.4.6-1 are specified in TS 36.101 Rel-13 [2].

## Table B.4.6-1: Common UE RF requirements for a release independent dual uplink inter-band CA configuration

Section / Clause	Description	
5.6A.1	Channel bandwidths per operating band for CA	
6.2.2A	UE maximum output power for CA	
6.2.5A	Configured transmitted Power for CA	
6.3.2A	UE Minimum output power for CA	
6.3.3A	UE Transmit OFF power for CA	
6.3.4A	ON/OFF time mask for CA	
6.3.5A	Power control for CA	
6.5.1A	Frequency error for CA	
6.5.2A	Transmit modulation quality for CA	
6.6.1A	Occupied bandwidth for CA	
6.6.2.1A	Spectrum emission mask for CA	
6.6.2.3	Adjacent Channel Leakage Ratio	
6.6.3.1A	Spurious Emission for CA	
6.6.3.2A	Spurious emission band UE co-existence for CA	
6.7.1A	Transmit intermodulation for CA	
7.3.1A	Reference sensitivity for CA	
7.6.2.1A	Out-of-band blocking for CA	
7.7.1A	Spurious response for CA	

# B.4.7 Common UE RF requirements for dual uplink intra-band non-contiguous CA configuration

The requirements and test cases listed in Table B.4.7-1 are specified in TS 36.101 Rel-13 [2].

Section / Clause	Description
5.6A.1	Channel bandwidths per operating band for CA
6.2.2A	UE maximum output power for CA
6.2.3A	UE Maximum Output power for modulation / channel bandwidth for CA
6.2.5A	Configured transmitted Power for CA
6.3.2A	UE Minimum output power for CA
6.3.3A	UE Transmit OFF power for CA
6.3.4A	ON/OFF time mask for CA
6.3.5A	Power control for CA
6.5.1A	Frequency error for CA
6.5.2A	Transmit modulation quality for CA
6.6.1A	Occupied bandwidth for CA
6.6.2.1A	Spectrum emission mask for CA
6.6.2.3	Adjacent Channel Leakage Ratio
6.6.3.1A	Spurious Emission for CA
6.6.3.2A	Spurious emission band UE co-existence for CA
7.3.1A	Reference sensitivity for CA
7.6.2.1A	Out-of-band blocking for CA
7.7.1A	Spurious response for CA

#### Table B.4.7-1: Common UE RF requirements for a release independent dual uplink intra-band noncontiguous CA configuration

# B.4.8 Common UE RF requirements for three uplink inter-band CA configuration

The requirements and test cases listed in Table B.4.8-1 are specified in TS 36.101 Rel-13 [2].

# Table B.4.8-1: Common UE RF requirements for a release independent three uplink inter-band CA configuration

Section / Clause	Description	
5.6A.1	Channel bandwidths per operating band for CA	
6.2.2A	UE maximum output power for CA	
6.2.5A	Configured transmitted Power for CA	
6.3.2A	UE Minimum output power for CA	
6.3.3A	UE Transmit OFF power for CA	
6.3.4A	ON/OFF time mask for CA	
6.3.5A	Power control for CA	
6.5.1A	Frequency error for CA	
6.5.2A	Transmit modulation quality for CA	
6.6.1A	Occupied bandwidth for CA	
6.6.2.1A	Spectrum emission mask for CA	
6.6.2.3	Adjacent Channel Leakage Ratio	
6.6.3.1A	Spurious Emission for CA	
6.6.3.2A	Spurious emission band UE co-existence for CA	
6.7.1A	Transmit intermodulation for CA	
7.3.1A	Reference sensitivity for CA	
7.6.2.1A	Out-of-band blocking for CA	
7.7.1A	Spurious response for CA	

- B.4.9 Void
- B.4.10 Void
- B.4.11 Void

### Annex C (normative): Common Requirements for 4Rx

### C.1 Common UE RF requirements

The requirements and test cases listed in Table C.1-1 are specified in TS 36.101 Rel-13 [2].

Section / Clause	Description
7.3	Reference sensitivity power level
7.4	Maximum input level
7.5	Adjacent channel selectivity
7.6	Blocking characteristics
7.7	Spurious response
7.8	Intermodulation characteristics
7.9	Spurious emissions

### Table C.1-1: RF requirements for 4Rx for single band

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The requirements and test cases listed in Table C.1-2 are specified in TS 36.101Rel-13 [2].

#### Table C.1-2: RF requirements for 4Rx for CA

Section / Clause	Description
6.2.5A	Configured maximum output power
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA

## C.2 Common UE demodulation and CSI requirements

The requirements and test cases listed in Table C.2-1 are specified in TS 36.101 Rel-13 [2].

### Table C.2-1: UE Demodulation and CSI requirements for 4Rx for single band

Section / Clause	Description
8.10.1 (NOTE)	PDSCH
8.10.2	PDCCH/PCFICH
8.10.3	PHICH
8.10.4	ePDCCH
9.9	CSI reporting for 4Rx UE

The requirements and test cases listed in Table C.2-2 are specified in TS 36.101 Rel-13 [2].

#### Table C.2-2: CSI requirements for 4Rx CA/DC

Section / Clause	Description
9.1.1.4.2	CSI CA tests for 4Rx UE

Annex D (informative) : (Void)

## Annex E (normative): Common Requirements for 8Rx

### E.1 Common UE RF requirements

The requirements and test cases listed in Table E.1-1 are specified in TS 36.101 [2].

#### Table E.1-1: RF requirements for 8Rx

Section / Clause	Description
7.3	Reference sensitivity power level

The requirements and test cases listed in Table E.1-2 are specified in TS 36.101 [2].

#### Table E.1-2: RF requirements for 8Rx for CA

Section / Clause	Description
7.3.1A	Reference sensitivity for CA

Annex F (informative): Change history

Table C.1: Change History

Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
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.	0.2.0
03-2010	RP#47	RP-100162				TS36.307 v1.0.0 for approval	1.0.0
03-2010	RP#47	RP-100162				Approved by RAN	9.0.0
09-2010	RP-49	RP-100927	2			CR LTE_TDD_2600_US spectrum band definition additions to TS 36.307 V900	9.1.0
						Correction of section numbering	9.1.1
12-2010	RP-50	RP-101356	008			Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.2.0
12-2010	RP-50		005			Introduction of L-band in TS 36.307	9.2.0
12-2010	RP-50	RP-101344	016			CR creating the rel-10 of the 36.307 specification	9.3.0
12-2010	RP-50	RP-101356	012			Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.3.0
12-2010	RP-50					Raised to Rel-10 with no technical change	10.0.0
01-2011						Correction to history table	10.0.1
06-2011	RP-52	RP-110804				Add Expanded 1900 MHz Band (Band 25) in 36.307	10.1.0
06-2011	RP-52	RP-110812				Add 2GHz S-Band (Band 23) in 36.307 (Rel 10)	10.1.0
09-2011	RP-53	RP-111255				Add Band 22 for LTE/UMTS 3500 (FDD) to TS 36.307	10.2.0
03-2012	RP-55	RP-120305				Introduction of Band 26/XXVI to TS 36.307	11.0.0
2012-06	RP-56	RP-120789				Introduction of CA_1A-19A to TS 36.307	11.1.0
2012-06	RP-56	RP-120793				Introduction of APAC700(FDD) into TS 36.307 Rel-11	11.1.0
2012-06	RP-56	RP-120793	053			Introduction of APAC700(TDD) into TS 36.307 Rel-11	11.1.0
2012-06	RP-56	RP-120791	057			Introduction of e850_LB (Band 27) to TS 36.307	11.1.0
2012-09	RP-57	RP-121335	059			Introduction of CA_1A-21A to TS 36.307	11.2.0
2012-09	RP-57	RP-121295	070r1			Relation between EARFCN for overlapping bands with multiple FBI indication	11.2.0
2012-09	RP-57	RP-121338	072			36.307 CR for LTE_CA_B7	11.2.0
2012-09	RP-57	RP-121337	073			TS 36.307 CR for CA_38	11.2.0
2012-09	RP-57	RP-121327	074			Introduction of CA_B7_B20 in 36.307	11.2.0
2012-09	RP-57		075			Introduction of CA band combination Band3 + Band5 to TS 36.307	11.2.0
2012-09	RP-57		076			Introduction of CA_3A-20A to TS 36.307	11.2.0
2012-09	RP-57	RP-121334	077			Add requirements for inter-band CA of B_1-18 in TS36.307	11.2.0
2012-09	RP-57	RP-121333				Introduction of CA_8_20 RF requirements into TS36.307	11.2.0
2012-09	RP-57	RP-121324				Introduction of CA_B3_B7 in 36.307	11.2.0
2012-12	RP-58	RP-121890				Introduction of CA_4A-5A into 36.307	11.3.0
2012-12	RP-58	RP-121889	088				11.3.0
2012-12	RP-58	RP-121896	091			Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307	11.3.0
2012-12	RP-58	RP-121884	092			Introduction of CA_3A-8A to TS 36.307	11.3.0
2012-12	RP-58	RP-121894	093			Introduction of CA_B5_B12 in 36.307	11.3.0
2012-12	RP-58	RP-121887	095			Introduction of CA_4-12 into TS 36.307 (Rel-11)	11.3.0
2012-12	RP-58	RP-121882	097			[Rel-11] Introduction of inter-band CA_11-18 into TS36.307	11.3.0
2012-12	RP-58	RP-121861				Release-independent implementation of carrier aggregation configuration CA_4-7	11.3.0
2012-12	RP-58	RP-121901	101			Introduction of Band 29	11.3.0
2012-12	RP-58	RP-121718	0102			Introduction of CA band combination Band2 + Band17 to TS 36.307 (Rel-11)	11.3.0
2012-12	RP-58	RP-121720	0104				11.3.0
2013-06	RP-60	RP-130771	108			Introduction of CA 1+8 into TS36.307(Rel-12)	12.0.0
2013-06	RP-60	RP-130782	111			Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-12	12.0.0
2013-06	RP-60	RP-130785	114			Introduction of LTE Advanced inter-band Carrier Aggregation of Band 23 and Band 29 to TS 36.307 (Rel-12)	12.0.0
2013-06	RP-60	RP-130779	117			Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 26 to TS 36.307 (Rel-12)	12.0.0
2013-06	RP-60	RP-130777	120			Introduction of CA_3A-19A to TS 36.307	12.0.0
2013-06	RP-60	RP-130783				Introduction of CA_19A-21A to TS 36.307	12.0.0
2013-06	RP-60	RP-130775				Introduction of CA_2A-13A to TS 36.307	12.0.0
2013-06	RP-60	RP-130791				Introduction of Band 30	12.0.0
2013-06	RP-60	RP-130790				Introduction of LTE 450 into TS 36.307 R12	12.0.0
2013-06	RP-60		150			Introduction of CA_4A-4A into 36.307 Rel-12	12.0.0
09-2013	RP-61	RP-131300				36.307 CR for LTE_CA_C_B3 (Rel-12)	12.1.0
09-2013	RP-61	RP-131296				[Rel-12] Add requirements for CA_1A-26A into TS36.307	12.1.0
09-2013	RP-61	RP-131297				Introduction of CA_2A-4A to TS 36.307	12.1.0
09-2013	RP-61	RP-131298				Introduction of inter-band CA Band 2+5	12.1.0
		RP-131965				Introduction of CA_23A-23A to TS 36.307	12.2.0
12-2013	RP-62	KF-131900	173				12.2.0

Labor         No. E.         Solid Section         Labor         Solid Section         Labor         Labor <thlabor< th=""> <thlabor< th=""> <thlabor< t<="" th=""><th>12-2013</th><th>RP-62</th><th>RP-131954</th><th>181</th><th>Introduction of CA band combination Band12 + Band25 to TS</th><th>12.2.0</th></thlabor<></thlabor<></thlabor<>	12-2013	RP-62	RP-131954	181	Introduction of CA band combination Band12 + Band25 to TS	12.2.0
12:2013         RP-62         RP-131957         192         Introduction of CA.238 to TS 36.307         12:2.0           12:2013         RP-62         RP-131950         200         Introduction of CA.238 to TS 36.307         12:2.0           12:2013         RP-62         RP-131950         2011         Introduction of CA.238 to TS 36.307         12:2.0           12:2013         RP-62         RP-131967         2011         Introduction of CA. band combination Bands + Band25 to TS 36.307 ft 12:2.0           12:2013         RP-62         RP-131967         2017         Introduction of CA. band combination B7 + B21 to TS 36.307 ft 12:2.0           12:2013         RP-62         RP-131967         216         UE performance regulments in nelases independent specification         12:2.0           12:2013         RP-62         RP-140366         219         Introduction of CA.37A to TS 26.307 ft 21:2.0         12:2.0           12:2013         RP-63         RP-140366         219         Introduction of CA.39C ht TS 36.307         12:3.0           12:2013         RP-63         RP-140386         219         Introduction of CA.39C ht TS 36.307         12:3.0           12:2013         RP-64         RP-140386         2457         Re-64.392         12:3.0           12:2014         RP-64         RP-140381	12-2013	KF-02	KF-131934	101		12.2.0
12:201         RP-42         RP-11961         14         Introduction of Carbon ton-configuous CA in band 3 to TS         12:20           12:2013         RP-42         RP-11967         2011         Introduction of Carbon ton-configuous CA in band 3 to TS         12:20           12:2013         RP-42         RP-11967         2011         Introduction of Carbon ton-configuous CA in band 3 to TS         12:20           12:2013         RP-42         RP-11962         201         Introduction of CA band combination B 5: P 10 TS 36:307         12:20           12:2013         RP-42         RP-119162         207         Introduction of CA band combination B 5: P 10 TS 36:307         12:20           12:2013         RP-42         RP-119162         216         UE performance requirements in release independent specification         12:20           12:2014         RP-43         RP-140368         227         36:307         12:30           03:2014         RP-43         RP-140388         2011         Correction to release independent specification         12:30           03:2014         RP-43         RP-140381         201         Correction to release independent specification         12:30           03:2014         RP-43         RP-140381         2001         Introduction of CA 396 to TS 36:307         12:30	12-2013	RP-62	RP-131959	184	Introduction of LTE_CA_C_B27 to 36.307 (Rel-12)	12.2.0
22013         RP-62         RP-131967         200         11ntoduction of CA band combination BandS + Band25 to TS 36.307         12.2.0           12.2013         RP-62         RP-131967         2011         Introduction of CA band combination Band S + B 10 to TS 46.307         12.2.0           12.2013         RP-62         RP-131967         2017         Introduction of CA band combination S of Forward and Scope clauses         12.20           12.2013         RP-62         RP-131967         211         Consection of CA band combination S of Forward and Scope clauses         12.20           12.2013         RP-62         RP-131925         216         UE performance requirements in release independent specification         12.2.0           12.2013         RP-62         RP-140371         22.5         RP-63         RP-140371         22.5           12.2013         RP-642         RP-140371         23.5         Release independent specification         12.2.0           12.2014         RP-63         RP-140371         23.5         Release independent specification         12.3.0           03.2014         RP-63         RP-140378         24.7         Introduction of CA 334-417 153.6.307         12.3.0           03.2014         RP-64         RP-140378         25.7         Introduction of CA 334-417 110.3.5.3.37         12	12-2013	RP-62	RP-131957	192		12.2.0
12-2013         RP-62         RP-131967         20111         Introduction General Gause with note retering to note in classe 4.4         12.2013           12-2013         RP-62         RP-131948         204         Introduction of CA band combination B6 + B7 to TS 86.307 R12         12.201           12-2013         RP-62         RP-131952         207         Introduction of CA band combination B7 + B28 to TS 86.307 R12         12.20           12-2013         RP-62         RP-131925         216         UE performance requirements in release independent specification         12.20           12-2013         RP-63         RP-140376         219         Introduction of CA band combination Band 3 and Band 27 to TS         12.30           03-2014         RP-63         RP-140386         227         Introduction of CA 394-614 to TS 36.307         12.30           03-2014         RP-63         RP-140386         2107         Introduction of CA 394-614 to TS 36.307         12.30           03-2014         RP-63         RP-140388         21071         Introduction of CA 394-614 to TS 36.307         12.30           03-2014         RP-63         RP-140388         21071         Introduction of CA 394-614 to TS 36.307         12.30           04-2014         RP-64         RP-140918         300         36.307         12.30	12-2013	RP-62	RP-131961	194		12.2.0
In TS38. (1), editorial corrections and modifications to Forward and Scope clauses         introduction of CA band combination B5 + B7 to TS 88.07 Pt 22.0           12:2013         RP-62         RP-131967         211         Correction to release independent specification         12.20           12:2013         RP-62         RP-131967         211         Correction to release independent specification         12.20           12:2013         RP-62         RP-131967         216         UE performance requirements in release independent specification         12.20           12:2013         RP-63         RP-140386         219         Introduction of CA. An-74 to TS 88.007 Rel-12         12.30           03:2014         RP-63         RP-140386         227         Introduction of CA. 394.015 38.307         12.30           03:2014         RP-63         RP-140388         2101         Introduction of CA. 394.015 38.307         12.30           05:2014         RP-64         RP-140381         200         Correction of CAmmon RRM requirements for Ch in release         12.40           06:2014         RP-64         RP-140381         285         Introduction of CA hand combination Band 1 and Band 271 to TS         12.40           06:2014         RP-64         RP-140981         280         Introduction of CA hand combination Band 1 and Band 271 to TS         12.40	12-2013	RP-62	RP-131950	200	Introduction of CA band combination Band5 + Band25 to TS 36.307	12.2.0
Scope clauses         Scope cl	12-2013	RP-62	RP-131967	201r1		12.2.0
12:2013         RP-62         RP-131948         204         Introduction of CA band combination B5 + B7 to TS 63:07 R12         12:20           12:2013         RP-62         RP-131967         211         Correction to release independent specification         12:20           12:2013         RP-62         RP-131967         211         Correction to release independent specification         12:20           12:2013         RP-62         RP-140371         235         Release independence of Band 14 HPUE         12:30           03:2014         RP-63         RP-140381         235         Release independence of Band 14 HPUE         12:30           03:2014         RP-63         RP-140389         2461         Correction of CA band combination Band 3 and Band 27 to TS         12:30           03:2014         RP-63         RP-140389         2461         Correction of CA 394:01 S8 307         12:30           03:2014         RP-64         RP-140981         300         Correction of Cambon RRM requirements for CA in release         12:4.0           04:2014         RP-64         RP-140981         300         Correction of Cambon RRM requirements for CA in release         12:4.0           06:2014         RP-64         RP-140981         300         Correction of Cambon RRM requirements for CA in release         12:4.0						
12-2013         RP-62         RP-131962         207         Introduction of CA band combination B7 + E28 to TS 86.07         12.20           12-2013         RP-62         RP-131925         216         UE performance requirements in release independent specification         12.20           12-2013         RP-62         RP-131925         216         UE performance requirements in release independent specification         12.20           12-2014         RP-62         RP-140396         219         Introduction of CA JAr./A to TS 36.307         12.30           03-2014         RP-63         RP-140396         2451         Correction of CA 306.41 to TS 36.307         12.30           03-2014         RP-64         RP-140981         2451         Correction of CA 306.41 to TS 36.307         12.30           03-2014         RP-64         RP-140981         200         Introduction of CA 307.41 to TS 36.307         12.30           06-2014         RP-64         RP-140918         300         Correction of Common RRM requirements for CA in release         12.40           06-2014         RP-64         RP-140918         200         Introduction of CA 14 to TS 36.307 Rel-12         12.40           06-2014         RP-64         RP-140918         201         Introduction of CA 14 to TS 36.307 Rel-12         12.40	12-2013	RP-62	RP-131948	204		12.2.0
12:2013         RP-62         RP-131925         216         UE performance requirements in release independent specification         12.2013           12:2013         RP-62         RP-131963         219         Introduction of CA_7A-7A to TS 36.307 Rel-12         12.20           03:2014         RP-63         RP-140396         227         Introduction of CA band combination Band 3 and Band 27 to TS         12.30           03:2014         RP-63         RP-140398         245r1         Correction to release independent specification         12.30           03:2014         RP-63         RP-140398         2101         Introduction of CA 394-41A to TS 36.307         12.30           03:2014         RP-64         RP-140397         1971         Introduction of CA 394-41A to TS 36.307         12.30           06:2014         RP-64         RP-140918         300         Correction of Common RRM requirements for CA in release         12.4.0           06:2014         RP-64         RP-140918         200         Introduction of CA and combination Band 4 and Band 27 to TS         12.4.0           06:2014         RP-64         RP-140918         200         Introduction of CA band combination Band 4 and Band 27 to TS         12.4.0           06:2014         RP-64         RP-140931         275         Introduction of CA band combination Band 4 and	12-2013	RP-62	RP-131952	207		
Introduction of CA, 7A-7A to TS 36.307 Rel-12         12.2.0           03-2014         RP-63         RP-140371         235         Release independence of Band 14 HPUE         12.3.0           03-2014         RP-63         RP-140386         247         Introduction of CA band combination Band 3 and Band 27 to TS         12.3.0           03-2014         RP-63         RP-140388         24511         Correction to release independent specification         12.3.0           03-2014         RP-63         RP-140388         24511         Introduction of CA, 394.41 to TS 36.307         12.3.0           03-2014         RP-64         RP-140918         200         Introduction of CA, 394.41 to TS 36.307         12.3.0           06-2014         RP-64         RP-140918         300         Correction of Common RRM requirements for CA in release         12.4.0           06-2014         RP-64         RP-140926         280r1         Introduction of CA 114 to CB 30.07 (Rel-12)         12.4.0           06-2014         RP-64         RP-140926         280r1         Introduction of CA, 24.24 to TS 36.307         12.4.0           06-2014         RP-64         RP-140933         275         Introduction of CA, 24.24 to TS 36.307         12.4.0           06-2014         RP-64         RP-140942         230         Intro	12-2013	RP-62	RP-131967	211	Correction to release independent specification	12.2.0
03-2014         RP-63         RP-140371         23.5         Release independence of Band 14 HPUE         12.3.0           03-2014         RP-63         RP-140386         2267         Introduction of CA band combination Band 3 and Band 27 to TS         12.3.0           03-2014         RP-63         RP-140388         21671         Introduction of CA, 394C to TS 36.307         12.3.0           03-2014         RP-63         RP-140388         21071         Introduction of CA, 394C to TS 36.307         12.3.0           06-2014         RP-64         RP-140918         300         Correction of CA and combination Band 1 and Band 5 to TS         12.4.0           06-2014         RP-64         RP-140918         300         Correction of Common RRM requirements for CA in release         12.4.0           06-2014         RP-64         RP-140933         2251         Introduction of CA band combination Rel-12         12.4.0           06-2014         RP-64         RP-140933         2251         Introduction of CA band combination Rel-12         12.4.0           06-2014         RP-64         RP-140940         319         Introduction of CA band combination Rel-12         12.4.0           06-2014         RP-64         RP-140940         319         Introduction of CA band combination Rad 3 and Band 27 to TS         12.4.0	12-2013	RP-62	RP-131925	216		12.2.0
03-2014         RP-63         RP-140386         227         Introduction of CA band combination Band 3 and Band 27 to TS         12.3.0           03-2014         RP-63         RP-140389         245rt         Correction to release independent specification         12.3.0           03-2014         RP-63         RP-140387         197rt         Introduction of CA. 390.4116 to TS 36.307         12.3.0           06-2014         RP-64         RP-140387         197rt         Introduction of CA. 390.4116 to TS 36.307         12.3.0           06-2014         RP-64         RP-140918         300         Correction of Common RfM requirements for CA in release         12.4.0           06-2014         RP-64         RP-140931         256         Introduction of CA 1403 20.7 (Rel-12)         12.4.0           06-2014         RP-64         RP-140933         251         Introduction of CA 2+2A to TS 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140930         319         Introduction of CA 2+2A to TS 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140932         230         Introduction of CA band combination Band 1 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140942         340         Introduction of CA band combination Band 1 and Band 20 to TS <td< td=""><td>12-2013</td><td>RP-62</td><td>RP-131963</td><td>219</td><td>Introduction of CA_7A-7A to TS 36.307 Rel-12</td><td>12.2.0</td></td<>	12-2013	RP-62	RP-131963	219	Introduction of CA_7A-7A to TS 36.307 Rel-12	12.2.0
0-2014         RP-63         RP-14038         245rt         Correction to release independent specification         12.3.0           03-2014         RP-63         RP-14038         210rt         Introduction of CA. 394C to TS 36.307         12.3.0           03-2014         RP-63         RP-14038         210rt         Introduction of CA. 394C to TS 36.307         12.3.0           06-2014         RP-64         RP-140918         300         Correction of Common RRM requirements for CA in release         12.4.0           06-2014         RP-64         RP-140926         280rt         Introduction of CA. 1410 103.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140938         221         Introduction of CA. 2A-2A to TS 36.307 Rel-12         12.4.0           06-2014         RP-64         RP-140938         221         Introduction of CA. 2A-2A to TS 36.307         12.4.0           06-2014         RP-64         RP-140940         319         Introduction of CA band combination Band 3 and Band 27 to TS 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140942         253         Introduction of CA band combination Band 3 and Band 27 to TS 12.4.0         36.307           06-2014         RP-64         RP-140942         240         Introduction of CA band combination Band 3 and Band 20 to TS 12.4.0	03-2014	RP-63				12.3.0
03-2014         RP-63         RP-140388         21011         Introduction of CA.39C to TS 36.307         12.3.0           06-2014         RP-64         RP-140911         259         Introduction of CA.39C to TS 36.307         12.3.0           06-2014         RP-64         RP-140911         259         Introduction of CA.39A-41A to TS 36.307         12.3.0           06-2014         RP-64         RP-140981         300         Correction of Common RRM requirements for CA in release independent specification (Rel-12)         12.4.0           06-2014         RP-64         RP-140931         265         Introduction of CA.111 to 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140938         291         Introduction of CA.2-2A to TS 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140942         253         Introduction of CA.2-2A to TS 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140942         253         Introduction of CA band combination Band 1 and Band 20 to TS         12.4.0           06-2014         RP-64         RP-140943         347         Introduction of CA and combination CA_41D into TS 36.307 (Rel-12)         12.6.0           06-2014         RP-66         RP-141020         3863/1         Introduction of CA_18-28 into TS 36.307 (Rel-12)	03-2014	RP-63	RP-140386	227		12.3.0
03-2014         RP-63         RP-140388         21011         Introduction of CA.39C to TS 36.307         12.3.0           06-2014         RP-64         RP-140911         259         Introduction of CA.39C to TS 36.307         12.3.0           06-2014         RP-64         RP-140911         259         Introduction of CA.39A-41A to TS 36.307         12.3.0           06-2014         RP-64         RP-140981         260         Correction of Common RRM requirements for CA in release independent specification (Rel-12)         12.4.0           06-2014         RP-64         RP-140931         265         Introduction of CA.111 to 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140931         275         Introduction of CA.2.2A to TS 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140932         275         Introduction of CA.2.2A to TS 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140940         319         Introduction of CA.2.2A to TS 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140942         230         36.307         12.4.0           06-2014         RP-64         RP-140943         347         1         110.0         36.307         12.4.0         36.307         12.4.0	03-2014	RP-63	RP-140389	245r1	Correction to release independent specification	12.3.0
06-2014         RP-64         RP-140911         259         Introduction of CA.band combination Band 1 and Band 5 to TS         12.4.0           06-2014         RP-64         RP-140918         300         Correction of Common RRM requirements for CA in release independent specification (Rel-12)         12.4.0           06-2014         RP-64         RP-140931         2265         Introduction of CA.1+11 to 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140933         275         Biotoution of CA.2+2.4 to TS 36.307 Rel-12         12.4.0           06-2014         RP-64         RP-140933         275         Biotoution of CA.band combination Band 4 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140940         319         Introduction of CA band combination Band 3 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140942         340         Introduction of CA band combination Band 3 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140942         340         Introduction of CA band combination Band 1 and Band 20 to TS         12.4.0           06-2014         RP-66         RP-141924         2340         Introduction of CA band combination CA_410 Into TS 36.307 (Rel-12)         12.5.0           06-2014         RP-66         RP-141320						
06-2014         RP-64         RP-140916         300         Correction of Common RRM requirements for CA in release independent specification (Rel-12)         12.4.0           06-2014         RP-64         RP-140926         28011         Introduction of CA 11110 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140931         265         Introduction of CA 11110 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140938         291         Introduction of CA 2.4-2A to TS 36.307 Rel-12         12.4.0           06-2014         RP-64         RP-140938         291         Introduction of CA 2.4-2A to TS 36.307 Rel-12         12.4.0           06-2014         RP-64         RP-140942         340         Introduction of CA band combination Band 3 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140943         347         Introduction of CA band combination CA_41D into TS 36.307 (Rel-12.0         12.5.0           06-2014         RP-66         RP-141100         0386rt         Introduction of CA 18.28 Into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-66         RP-141200         0386rt         Introduction of CA 18.28 Into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-66         RP-141320         0386rt         Introduction of CA 1	03-2014	RP-63	RP-140387	197r1	Introduction of CA_39A-41A to TS 36.307	12.3.0
Independent specification (ReI-12)         Introduction of Band 20+32 CA         12.4.0           06-2014         RP-64         RP-140931         265         Introduction of CA 1+11 to 36.307 (ReI-12)         12.4.0           06-2014         RP-64         RP-140933         275         Introduction of CA 2A-2A to TS 36.307 ReI-12         12.4.0           06-2014         RP-64         RP-140938         291         Introduction of CA 2A-2A to TS 36.307 ReI-12         12.4.0           06-2014         RP-64         RP-140942         253         Introduction of CA band combination Band 3 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140942         253         Introduction of CA band combination Band 3 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140942         340         Introduction of CA band combination Band 1 and Band 20 to TS         12.4.0           06-2014         RP-64         RP-140943         347         Introduction of CA band combination CA_41D into TS 36.307 (ReI-12)         12.5.0           06-2014         RP-65         RP-141020         386.307         12.5.0         12.5.0           06-2014         RP-65         RP-14120         386.311         Introduction of CA_181.83 Into TS 36.307 (ReI-12)         12.5.0           06-2014         RP-65	06-2014	RP-64	RP-140911	259		12.4.0
06-2014         RP-64         RP-140926         280rt         Introduction of Eand 20+32 CA         12.4.0           06-2014         RP-64         RP-140931         265         Introduction of CA 1+11 to 36.307 (ReI-12)         12.4.0           06-2014         RP-64         RP-140938         275         Introduction of CA 2A-2A to TS 36.307 ReI-12         12.4.0           06-2014         RP-64         RP-140938         291         Introduction of CA band combination Band 3 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140942         253         Introduction of CA band combination Band and And Z7 to TS         12.4.0           06-2014         RP-64         RP-140942         347         Introduction of CA band combination Band 1 and Band 20 to TS         12.4.0           06-2014         RP-64         RP-1410943         347         Introduction of CA band combination CA_41D into TS 36.307 (ReI-12)         12.6.0           06-2014         RP-65         RP-141206         0366r1         Introduction of CA B1 B3 B19 into TS 36.307 (ReI-12)         12.5.0           09-2014         RP-65         RP-141206         0366r1         Introduction of CA B1 B3 Into TS 36.307 (ReI-12)         12.5.0           09-2014         RP-65         RP-141206         0363ar1         Introduction of CA B1 B3 Into TS 36.307 (Re	06-2014	RP-64	RP-140918	300	Correction of Common RRM requirements for CA in release	12.4.0
06-2014         RP-64         RP-140931         265         Introduction of CA 1+11 to 36.307 (Rel-12)         12.4.0           06-2014         RP-64         RP-140933         275         Introduction of CA 2A-2A to TS 66.07 Rel-12         12.4.0           06-2014         RP-64         RP-140938         291         Introduction of CA 2A-2A to TS 66.07 Rel-12         12.4.0           06-2014         RP-64         RP-140942         253         Introduction of CA 2A-2A to TS 66.07 Rel-12         12.4.0           06-2014         RP-64         RP-140942         253         Introduction of CA 2A-2A to TS 66.07 Rel-12         12.4.0           06-2014         RP-64         RP-140942         340         Introduction of CA band combination Band 1 and Band 20 to TS         12.4.0           06-2014         RP-64         RP-140943         347         Introduction of CA band combination CA_41D into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141200         366:11         Introduction of CA B1 B.3 Bin to TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-14120         363:11         Introduction of CA B1 B.3 Bin to TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141320         363:01         Introduction of CA B1 B.3 Bin torTS 36.307 (Rel-12)	06-2014	RP-64	RP-140926	280r1		12.4.0
06-2014         RP-64         RP-140933         275         Introduction of CA band combination Band 4 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140988         291         Introduction of CA_2A-2A to TS 36.307 Rel-12         12.4.0           06-2014         RP-64         RP-140984         291         Introduction of CA_2A-2A to TS 36.307 Rel-12         12.4.0           06-2014         RP-64         RP-140942         253         Introduction of CA band combination Band 3 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140943         347         Introduction of CA band combination Band 1 and Band 20 to TS         12.4.0           06-2014         RP-65         RP-141093         347         Introduction of CA band combination CA_41D into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-14110         0386r1         Introduction of CA_1B1.8 JP1 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141320         0436r1         Introduction of CA_1B1.8 JP1 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141467         0432         Introduction of CA_1B1.8 JP1 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-1414567         12.5.0         Introduction o						
06-2014         RP-64         RP-140938         291         Introduction of CA_2A-2A to TS 36.307 Rel-12         12.4.0           06-2014         RP-64         RP-140940         319         Introduction of CA_band combination Band 3 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140942         253         Introduction of CA band combination Band 3 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140942         340         Introduction of CA band combination Band 1 and Band 20 to TS         12.4.0           06-2014         RP-65         RP-1410943         347         Introduction of CA band combination CA_11D into TS 36.307 (Rel-12)         12.6.0           09-2014         RP-65         RP-141205         038611         Introduction of CA B1 B3 B19 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141205         039311         Introduction of CA_183 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141420         0397611         Introduction of CA_185 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-1414467         0432         Introduction of CA_185 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141551         300         Introduction of CA_81					Introduction of CA band combination Band 4 and Band 27 to TS	
OB-2014         RP-44         RP-140940         319         Introduction of LTE_CA_NC_B42 into 86.307         12.4.0           06-2014         RP-64         RP-140942         253         Introduction of CA band combination Band 3 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140942         340         Introduction of CA band combination Band 1 and Band 20 to TS         12.4.0           06-2014         RP-64         RP-140943         347         Introduction of CA band combination CA_41D into TS 36.307 (Rel-12)         12.4.0           09-2014         RP-65         RP-141100         0388r1         [Rel-12] Introduction of inter-band CA_41D into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141200         0366r1         Introduction of CA_B1_B3 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141320         036r1         Introduction of CA_B1_B3 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141320         036r1         Introduction of CA_B1_B3 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141327         145r1         CC for 56.307 on CA UE performance requirement in Rel-12         12.5.0           09-2014         RP-65         RP-1414527         15r1         CC for	06-2014	RP-64	RP-140938	291		12.4.0
06-2014         RP-64         RP-140942         253         Introduction of CA band combination Band 3 and Band 27 to TS         12.4.0           06-2014         RP-64         RP-140943         340         Introduction of CA band combination Band 1 and Band 20 to TS         12.4.0           06-2014         RP-64         RP-140943         347         Introduction of CA band combination CA_41D into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141110         0388r1         [Rel-12] Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141206         0366r1         Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141302         0368r1         Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141320         0376r1         Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141551         360         Introduction of CA 41-42A to TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141552         379         Introduction of CA 411 to 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141552         331         Introduction						
06-2014         RP-64         RP-140942         340         Introduction of CA band combination Band 1 and Band 20 to TS         12.4.0           06-2014         RP-64         RP-140943         347         Introduction of CA band combination CA_41D into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141100         0386r1         Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-66         RP-141205         0363r1         Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-66         RP-141205         0363r1         Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-66         RP-141320         0429r1         Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-66         RP-141467         0432         Introduction of CA B11 B5.B7 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-66         RP-141551         360         Introduction of CA_41A-42A to TS 36.307         12.5.0           09-2014         RP-66         RP-141552         379         Introduction of CA_41A-42A to TS 36.307         12.5.0           09-2014         RP-65         RP-141553         381         Introduction of Tequirements for 2DL i					Introduction of CA band combination Band 3 and Band 27 to TS	
06-2014         RP-64         RP-140943         347         Introduction of CA band combination CA_41D into TS 36.307 (Rel- 12)         12.4.0           09-2014         RP-65         RP-141100         0388r1         IRel-12] Introduction of CA_B1_B3_B119 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141200         0366r1         Introduction of CA_B1_B3_Into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141205         0363r1         Introduction of CA_B1_B3_Into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141320         0376r1         Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141467         0376r1         Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141551         030         Introduction of CA_B+11 to 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141553         381         Introduction of a new bandwidth combination set for CA_25A-25A         12.5.0           09-2014         RP-65         RP-141554         418r1         Introduction of a sew bandwidth combination set for CA_25A-25A         12.5.0           09-2014         RP-65         RP-141555         384         Intr	06-2014	RP-64	RP-140942	340	Introduction of CA band combination Band 1 and Band 20 to TS	12.4.0
19-2014         RP-65         RP-141110         0388r1         [Rel-12] Introduction of Inter-band CA_18-28 into TS36.307         12.5.0           09-2014         RP-65         RP-141200         0366r1         Introduction of CA_B1_B3 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141205         0363r1         Introduction of CA_11-X-TA into 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141320         0363r1         Introduction of CA_1A-7A into 5.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141320         0367r1         Introduction of CA_1A-7A into 5.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141527         415r1         CR for 36.307 on CA UE performance requirement in Rel-12         12.5.0           09-2014         RP-65         RP-141551         360         Introduction of CA_41A-42A to TS 36.307         12.5.0           09-2014         RP-65         RP-141553         381         Introduction of requirements for 2DL inter-band carrier aggregation 12.5.0         into 36.307           09-2014         RP-65         RP-141554         418r1         Introduction of requirements for 2DL inter-band carrier aggregation 12.5.0         into 36.307           09-2014         RP-65         RP-141554         418r1 <td< td=""><td>06-2014</td><td>RP-64</td><td>RP-140943</td><td>347</td><td>Introduction of CA band combination CA_41D into TS 36.307 (Rel-</td><td>12.4.0</td></td<>	06-2014	RP-64	RP-140943	347	Introduction of CA band combination CA_41D into TS 36.307 (Rel-	12.4.0
19-2014         RP-65         RP-141200         0366r1         Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141302         0429r1         Introduction of CA_B1_B3 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141340         0376r1         Introduction of CA_B1_B5_P1 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-14167         0432         Introduction of CA_B1_B5_P1 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-14157         0432         Introduction of CA_B1_B5_P1 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141551         360         Introduction of CA_4114-42A to TS 36.307         12.5.0           09-2014         RP-65         RP-141553         381         Introduction of requirements for 3DL inter-band carrier aggregation         12.5.0           09-2014         RP-65         RP-141554         418r1         Introduction of requirements for 3DL inter-band carrier aggregation         12.5.0           09-2014         RP-65         RP-141554         421         Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and         12.5.0           09-2014         RP-65         RP-141556         384         Introduction	09-2014	RP-65	RP-141110	0388r1		12.5.0
19-2014         RP-65         RP-141205         0363r1         Introduction of CA. B1.B3 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141330         0376r1         Introduction of CA. B1.B5.B7 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141467         0432         Introduction of 3 DL CA for Band 1+7+20         12.5.0           09-2014         RP-65         RP-14157         14571         CR for 36.307 on CA UE performance requirement in Rel-12         12.5.0           09-2014         RP-65         RP-141551         360         Introduction of CA. 4114 24 to TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141553         381         Introduction of CA. 41A-424 to TS 36.307         12.5.0           09-2014         RP-65         RP-141553         381         Introduction of a new bandwidth combination set for CA_25A-25A         12.5.0           09-2014         RP-65         RP-141554         418r1         Introduction of requirements for 2DL inter-band carrier aggregation         12.5.0           09-2014         RP-65         RP-141556         357r1         Introduction of 3 Band Carrier Aggregation of Band 1, Band 3 and         12.5.0           09-2014         RP-65         RP-141556         357r1         Introduction of A band	09-2014	RP-65	RP-141200	0366r1		12.5.0
09-2014         RP-65         RP-141340         0376r1         Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141467         0432         Introduction of 3 DL CA for Band 1+7+20         12.5.0           09-2014         RP-65         RP-141527         1415r1         CR for 36.307 on CA UE performance requirement in Rel-12         12.5.0           09-2014         RP-65         RP-141552         379         Introduction of CA_41A-42A to TS 36.307         12.5.0           09-2014         RP-65         RP-141552         379         Introduction of CA_41A-42A to TS 36.307         12.5.0           09-2014         RP-65         RP-141554         381         Introduction of a new bandwidth combination set for CA_25A-25A         12.5.0           09-2014         RP-65         RP-141554         418r1         Introduction of requirements for 2DL inter-band carrier aggregation         12.5.0           09-2014         RP-65         RP-141555         384         Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1,         12.5.0           09-2014         RP-65         RP-141565         357r1         Introduction of A Band Carrier Aggregation (3DL/1UL) of Band 1,         12.5.0           09-2014         RP-65         RP-141566         357r1         Introduction of new CA	09-2014					12.5.0
19:2014         RP-65         RP-141467         0432         Introduction of 3 DL CA for Band 1+7+20         12:5.0           09:2014         RP-65         RP-141527         415r1         CR for 36.307 on CA UE performance requirement in Rel-12         12:5.0           09:2014         RP-65         RP-141551         360         Introduction of CA ±11 to 36.307 (Rel-12)         12:5.0           09:2014         RP-65         RP-141553         381         Introduction of CA ±11 to 36.307         12:5.0           09:2014         RP-65         RP-141553         381         Introduction of CA ±11-A2A to TS 36.307         12:5.0           09:2014         RP-65         RP-141554         418r1         Introduction of requirements for 2DL inter-band carrier aggregation 12:5.0         12:5.0           09:2014         RP-65         RP-141555         384         Introduction of requirements for 3DL inter-band carrier aggregation 12:5.0         12:5.0           09:2014         RP-65         RP-141555         384         Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and 12:5.0         12:5.0           09:2014         RP-65         RP-141556         357r1         Introduction of CA band combination Band 1, Band 3 and Band 2:0         12:5.0           09:2014         RP-65         RP-141558         402         Introduction of CA	09-2014	RP-65	RP-141332	0429r1		12.5.0
09-2014         RP-65         RP-141527         415r1         CR for 36.307 on CA UE performance requirement in Rel-12         12.5.0           09-2014         RP-65         RP-141551         360         Introduction of CA_411 to 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141552         379         Introduction of CA_411A-42A to TS 36.307         12.5.0           09-2014         RP-65         RP-141553         381         Introduction of a new bandwidth combination set for CA_25A-25A         12.5.0           09-2014         RP-65         RP-141554         418r1         Introduction of a new bandwidth combination set for CA_25A-25A         12.5.0           09-2014         RP-65         RP-141554         418r1         Introduction of requirements for 3DL inter-band carrier aggregation 12.5.0         12.5.0           09-2014         RP-65         RP-141555         384         Introduction of 3 Band Carrier Aggregation of Band 1, Band 3 and Band 3 to TS 36.307         12.5.0           09-2014         RP-65         RP-141556         357r1         Introduction of CA band combination Band 1, Band 3 and Band 20         12.5.0           09-2014         RP-65         RP-141560         352         Introduction of CA band combination set into 36.307         12.5.0           09-2014         RP-66         RP-141261						
09-2014         RP-65         RP-141551         360         Introduction of CA 8+11 to 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141552         379         Introduction of CA 8+11 to 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141553         381         Introduction of CA 8+11 to 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141553         381         Introduction of CA 8+11 to 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141554         418r1         Introduction of a new bandwidth combination set for CA_25A-25A into 36.307 (Rel-12)         12.5.0           09-2014         RP-65         RP-141554         418r1         Introduction of requirements for 3DL inter-band carrier aggregation for aggregation fead 1, Band 3 and Band 30         12.5.0           09-2014         RP-65         RP-141556         384         Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, Band 3 and Band 3 and Band 3 to TS 36.307         12.5.0           09-2014         RP-65         RP-141558         402         Introduction of new CA_40C bandwidth combination set into 36.307         12.5.0           09-2014         RP-65         RP-141561         354         CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A-41A-41C         12.5.0           102-2014 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
09-2014         RP-65         RP-141552         379         Introduction of CA_41A-42A to TS 36.307         12.5.0           09-2014         RP-65         RP-141553         381         Introduction of a new bandwidth combination set for CA_25A-25A         12.5.0           09-2014         RP-65         RP-141554         418r1         Introduction of requirements for 2DL inter-band carrier aggregation (FDD) and 2DL fallback         12.5.0           09-2014         RP-65         RP-141554         421         Introduction of requirements for 3DL inter-band carrier aggregation including Band 30         12.5.0           09-2014         RP-65         RP-141555         384         Introduction of 3 Band Carrier Aggregation of Band 1, Band 3 and Band 5 to TS 36.307(Rel.12)         12.5.0           09-2014         RP-65         RP-141556         357r1         Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, band 3 and Band 3 and Band 3 and Band 8 to TS 36.307         12.5.0           09-2014         RP-65         RP-141561         352         Introduction of new CA_40C bandwidth combination set into 36.307         12.5.0           09-2014         RP-65         RP-141561         354         CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A-42A         12.5.0           09-2014         RP-66         RP-142182         440         UE RF requirements in the release independent spec						
09-2014         RP-65         RP-141553         381         Introduction of a new bandwidth combination set for CA_25A-25A it 25.0 into 36.307           09-2014         RP-65         RP-141554         418r1         Introduction of requirements for 2DL inter-band carrier aggregation (FDD) and 2DL fallback         12.5.0           09-2014         RP-65         RP-141554         421         Introduction of requirements for 3DL inter-band carrier aggregation including Band 30         12.5.0           09-2014         RP-65         RP-141555         384         Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and Band 5 to TS 36.307(Rel.12)         12.5.0           09-2014         RP-65         RP-141556         357r1         Introduction of CA band combination Band 1,Band 3 and Band 20 to TS 36.307         12.5.0           09-2014         RP-65         RP-141568         402         Introduction of CA band combination Band 1, Band 3 and Band 20 to TS 36.307         12.5.0           09-2014         RP-65         RP-141561         354         CR to 36.307 Rel-12: Introduction of CA_41C 41A and CA_41A- 12.5.0           09-2014         RP-65         RP-141561         354         CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A- 12.5.0           09-2014         RP-66         RP-142182         440         UE RF requirements in the release independent spec         12.6.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
09-2014         RP-65         RP-141554         418r1         Introduction of requirements for 2DL inter-band carrier aggregation (FDD) and 2DL fallback         12.5.0           09-2014         RP-65         RP-141554         421         Introduction of requirements for 3DL inter-band carrier aggregation including Band 30         12.5.0           09-2014         RP-65         RP-141555         384         Introduction of 3 Band Carrier Aggregation of Band 1, Band 3 and Band 5 to TS 36.307(Rel.12)         12.5.0           09-2014         RP-65         RP-141558         402         Introduction of CA band combination Band 1, Band 3 and Band 20 to TS 36.307         12.5.0           09-2014         RP-65         RP-141560         352         Introduction of new CA_40C bandwidth combination set into 36.307         12.5.0           09-2014         RP-65         RP-141561         354         CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A- 12.5.0         12.5.0           09-2014         RP-65         RP-141561         354         CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A- 12.5.0         12.5.0           12-2014         RP-66         RP-142182         448         [Rel-12] Introduction of inter-band CA_1-28 into TS36.307         12.6.0           12-2014         RP-66         RP-142188         444         Revision of common RRM requirements for release independent spec						
(FDD) and 2DL failback           09-2014         RP-65         RP-141554         421         Introduction of requirements for 3DL inter-band carrier aggregation including Band 30           09-2014         RP-65         RP-141555         384         Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and Band 3 to TS 36.307(Rel.12)           09-2014         RP-65         RP-141556         357r1         Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, 12.5.0 Band 3 and Band 8 to TS 36.307           09-2014         RP-65         RP-141558         402         Introduction of CA band combination Band 1, Band 3 and Band 20 to TS 36.307           09-2014         RP-65         RP-141560         352         Introduction of new CA_40C bandwidth combination set into 36.307 12.5.0 to TS 36.307           09-2014         RP-65         RP-141561         354         CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A-41C           12-2014         RP-66         RP-142182         440         UE RF requirements in the release independent spec         12.6.0           12-2014         RP-66         RP-142182         448         [Rel-12] Introduction of inter-band CA_1-28 into TS36.307         12.6.0           12-2014         RP-66         RP-142182         448         [Rel-12] Introduction of UE RF requirements for release independent spec         12.6.0           12-2014	09-2014	RP-65	RP-141554	418r1		12.5.0
Op-2014         RP-65         RP-141555         384         Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and Band 5 to TS 36.307(Rel.12)         12.5.0           09-2014         RP-65         RP-141556         357r1         Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, Band 3 and Band 8 to TS 36.307         12.5.0           09-2014         RP-65         RP-141558         402         Introduction of CA band combination Band 1, Band 3 and Band 20 to TS 36.307         12.5.0           09-2014         RP-65         RP-141560         352         Introduction of new CA_40C bandwidth combination set into 36.307         12.5.0           09-2014         RP-65         RP-141561         354         CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A- 41C         12.5.0           12-2014         RP-66         RP-142182         440         UE RF requirements in the release independent spec         12.6.0           12-2014         RP-66         RP-142188         444         Revision of common RRM requirements for release independent specification         12.6.0           12-2014         RP-66         RP-142182         448         [Rel-12] Introduction of inter-band CA_1-28 into TS36.307         12.6.0           12-2014         RP-66         RP-142189         455         CR for TR 36.307: LTE_CA_B5_B13         12.6.0           12-2014 <td>09-2014</td> <td>RP-65</td> <td>RP-141554</td> <td>421</td> <td></td> <td>12.5.0</td>	09-2014	RP-65	RP-141554	421		12.5.0
Band 5 to TS 36.307(Rel.12)         Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, Band 3 and Band 8 to TS 36.307         12.5.0           09-2014         RP-65         RP-141556         357r1         Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, Band 3 and Band 20 to TS 36.307         12.5.0           09-2014         RP-65         RP-141558         402         Introduction of CA band combination Band 1, Band 3 and Band 20 to TS 36.307         12.5.0           09-2014         RP-65         RP-141560         352         Introduction of new CA_40C bandwidth combination set into 36.307         12.5.0           09-2014         RP-65         RP-141561         354         CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A-41C         12.5.0           12-2014         RP-66         RP-142142         440         UE RF requirements in the release independent spec         12.6.0           12-2014         RP-66         RP-142188         444         Revision of common RRM requirements for release independent spec         12.6.0           12-2014         RP-66         RP-142182         448         [Rel-12] Introduction of inter-band CA_1-28 into TS36.307         12.6.0           12-2014         RP-66         RP-142189         455         CR for TR 36.307: LTE_CA_B5_B13         12.6.0           12-2014         RP-66         RP-142189					including Band 30	
Band 3 and Band 8 to TS 36.307         Introduction of CA band combination Band 1, Band 3 and Band 20 to TS 36.307           09-2014         RP-65         RP-141558         402         Introduction of CA band combination Band 1, Band 3 and Band 20 to TS 36.307           09-2014         RP-65         RP-141560         352         Introduction of new CA_40C bandwidth combination set into 36.307         12.5.0           09-2014         RP-65         RP-141561         354         CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A-41C         12.5.0           12-2014         RP-66         RP-142142         440         UE RF requirements in the release independent spec         12.6.0           12-2014         RP-66         RP-142182         448         Revision of common RRM requirements for release independent spec         12.6.0           12-2014         RP-66         RP-142182         448         [Rel-12] Introduction of inter-band CA_1-28 into TS36.307         12.6.0           12-2014         RP-66         RP-142189         455         CR for TR 36.307: LTE_CA_B5_B13         12.6.0           12-2014         RP-66         RP-142189         455         CR for TR 36.307: LTE_CA_B5_B13         12.6.0           12-2014         RP-66         RP-142189         455         CR for 36.307 Rel-12         12.7.0           03-2015					Band 5 to TS 36.307(Rel.12)	
to TS 36.307         to TS 36.307           09-2014         RP-65         RP-141560         352         Introduction of new CA_40C bandwidth combination set into 36.307         12.5.0           09-2014         RP-65         RP-141561         354         CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A- 41C         12.5.0           12-2014         RP-66         RP-142142         440         UE RF requirements in the release independent spec         12.6.0           12-2014         RP-66         RP-142188         444         Revision of common RRM requirements for release independent specification         12.6.0           12-2014         RP-66         RP-142182         448         [Rel-12] Introduction of inter-band CA_1-28 into TS36.307         12.6.0           12-2014         RP-66         RP-142189         455         CR for TR 36.307: LTE_CA_B5_B13         12.6.0           12-2014         RP-66         RP-142199         458r2         Introduction of additional band combinations for 3DL inter-band CA         12.6.0           12-2014         RP-66         RP-142190         458r2         Introduction of additional band combinations for 3DL inter-band CA         12.6.0           03-2015         RP-67         RP-150387         463         R4-73AH-0113: Correction of UE RF requirements for dual uplik to         12.7.0					Band 3 and Band 8 to TS 36.307	
09-2014         RP-65         RP-141561         354         CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A- 41C         12.5.0           12-2014         RP-66         RP-142142         440         UE RF requirements in the release independent spec         12.6.0           12-2014         RP-66         RP-142188         444         Revision of common RRM requirements for release independent specification         12.6.0           12-2014         RP-66         RP-142182         448         [Rel-12] Introduction of inter-band CA_1-28 into TS36.307         12.6.0           12-2014         RP-66         RP-142189         455         CR for TR 36.307: LTE_CA_B5_B13         12.6.0           12-2014         RP-66         RP-142199         455         CR for TR 36.307: LTE_CA_B5_B13         12.6.0           12-2014         RP-66         RP-142190         458r2         Introduction of additional band combinations for 3DL inter-band CA         12.6.0           03-2015         RP-67         RP-150387         463         R4-73AH-0113: Correction of UE RF requirements for dual uplik to         12.7.0           03-2015         RP-67         RP-150387         468         CR for 36.307 on CA UE performance requirement in Rel-12         12.7.0           03-2015         RP-67         RP-150387         469         Further revision of R					to TS 36.307	
41C           12-2014         RP-66         RP-142142         440         UE RF requirements in the release independent spec         12.6.0           12-2014         RP-66         RP-142188         444         Revision of common RRM requirements for release independent spec         12.6.0           12-2014         RP-66         RP-142182         448         [Rel-12] Introduction of inter-band CA_1-28 into TS36.307         12.6.0           12-2014         RP-66         RP-142189         455         CR for TR 36.307: LTE_CA_B5_B13         12.6.0           12-2014         RP-66         RP-142190         458r2         Introduction of additional band combinations for 3DL inter-band CA         12.6.0           12-2014         RP-67         RP-150387         463         R4-73AH-0113: Correction of UE RF requirements for dual uplik to TS 36.307 Rel-12         12.7.0           03-2015         RP-67         RP-150392         468         CR for 36.307 on CA UE performance requirement in Rel-12         12.7.0           03-2015         RP-67         RP-150387         469         Further revision of RSRP requirement for 36.307 release 12         12.7.0           03-2015         RP-68         RP-151068         0511r1         Introduction of CA_3A-40A to TS 36.307 R13         13.0.0						
12-2014         RP-66         RP-142188         444         Revision of common RRM requirements for release independent specification         12.6.0           12-2014         RP-66         RP-142182         448         [Rel-12] Introduction of inter-band CA_1-28 into TS36.307         12.6.0           12-2014         RP-66         RP-142189         455         CR for TR 36.307: LTE_CA_B5_B13         12.6.0           12-2014         RP-66         RP-142190         458r2         Introduction of additional band combinations for 3DL inter-band CA         12.6.0           12-2014         RP-67         RP-150387         463         R4-73AH-0113: Correction of UE RF requirements for dual uplik to TS 36.307 Rel-12         12.7.0           03-2015         RP-67         RP-150392         468         CR for 36.307 on CA UE performance requirement in Rel-12         12.7.0           03-2015         RP-67         RP-150387         469         Further revision of RSRP requirement for 36.307 release 12         12.7.0           03-2015         RP-68         RP-151068         0511r1         Introduction of CA_3A-40A to TS 36.307 R13         13.0.0	09-2014	RP-65	RP-141561	354		12.5.0
12-2014         RP-66         RP-142188         444         Revision of common RRM requirements for release independent specification         12.6.0           12-2014         RP-66         RP-142182         448         [Rel-12] Introduction of inter-band CA_1-28 into TS36.307         12.6.0           12-2014         RP-66         RP-142189         455         CR for TR 36.307: LTE_CA_B5_B13         12.6.0           12-2014         RP-66         RP-142190         458r2         Introduction of additional band combinations for 3DL inter-band CA         12.6.0           12-2014         RP-67         RP-150387         463         R4-73AH-0113: Correction of UE RF requirements for dual uplik to TS 36.307 Rel-12         12.7.0           03-2015         RP-67         RP-150392         468         CR for 36.307 on CA UE performance requirement in Rel-12         12.7.0           03-2015         RP-67         RP-150387         469         Further revision of RSRP requirement for 36.307 release 12         12.7.0           03-2015         RP-68         RP-151068         0511r1         Introduction of CA_3A-40A to TS 36.307 R13         13.0.0	12-2014	RP-66	RP-142142	440		12.6.0
12-2014         RP-66         RP-142182         448         [Rel-12] Introduction of inter-band CA_1-28 into TS36.307         12.6.0           12-2014         RP-66         RP-142189         455         CR for TR 36.307: LTE_CA_B5_B13         12.6.0           12-2014         RP-66         RP-142190         458r2         Introduction of additional band combinations for 3DL inter-band CA         12.6.0           03-2015         RP-67         RP-150387         463         R4-73AH-0113: Correction of UE RF requirements for dual uplik to         12.7.0           03-2015         RP-67         RP-150392         468         CR for 36.307 on CA UE performance requirement in Rel-12         12.7.0           03-2015         RP-67         RP-150387         469         Further revision of RSRP requirement for 36.307 release 12         12.7.0           03-2015         RP-68         RP-151068         0511r1         Introduction of CA_3A-40A to TS 36.307 R13         13.0.0	12-2014	RP-66	RP-142188	444	Revision of common RRM requirements for release independent	12.6.0
12-2014         RP-66         RP-142189         455         CR for TR 36.307: LTE_CA_B5_B13         12.6.0           12-2014         RP-66         RP-142190         458r2         Introduction of additional band combinations for 3DL inter-band CA         12.6.0           03-2015         RP-67         RP-150387         463         R4-73AH-0113: Correction of UE RF requirements for dual uplik to TS 36.307 Rel-12         12.7.0           03-2015         RP-67         RP-150392         468         CR for 36.307 on CA UE performance requirement in Rel-12         12.7.0           03-2015         RP-67         RP-150387         469         Further revision of RSRP requirement for 36.307 release 12         12.7.0           05-2015         RP-68         RP-151068         0511r1         Introduction of CA_3A-40A to TS 36.307 R13         13.0.0	12-2014	RP-66	RP-142182	448		12.6.0
12-2014         RP-66         RP-142190         458r2         Introduction of additional band combinations for 3DL inter-band CA         12.6.0           03-2015         RP-67         RP-150387         463         R4-73AH-0113: Correction of UE RF requirements for dual uplik to         12.7.0           03-2015         RP-67         RP-150392         468         CR for 36.307 nn CA UE performance requirement in Rel-12         12.7.0           03-2015         RP-67         RP-150387         469         Further revision of RSRP requirement for 36.307 release 12         12.7.0           03-2015         RP-68         RP-151068         0511r1         Introduction of CA_3A-40A to TS 36.307 R13         13.0.0						
03-2015         RP-67         RP-150387         463         R4-73AH-0113: Correction of UE RF requirements for dual uplik to TS 36.307 Rel-12         12.7.0           03-2015         RP-67         RP-150392         468         CR for 36.307 on CA UE performance requirement in Rel-12         12.7.0           03-2015         RP-67         RP-150387         469         Further revision of RSRP requirement for 36.307 release 12         12.7.0           05-2015         RP-68         RP-151068         0511r1         Introduction of CA_3A-40A to TS 36.307 R13         13.0.0						
TS 36.307 Rel-12         TS 36.307 Rel-12           03-2015         RP-67         RP-150392         468         CR for 36.307 on CA UE performance requirement in Rel-12         12.7.0           03-2015         RP-67         RP-150387         469         Further revision of RSRP requirement for 36.307 release 12         12.7.0           05-2015         RP-68         RP-151068         0511r1         Introduction of CA_3A-40A to TS 36.307 R13         13.0.0					R4-73AH-0113: Correction of UE RF requirements for dual uplik to	
03-2015         RP-67         RP-150387         469         Further revision of RSRP requirement for 36.307 release 12         12.7.0           05-2015         RP-68         RP-151068         0511r1         Introduction of CA_3A-40A to TS 36.307 R13         13.0.0					TS 36.307 Rel-12	
05-2015 RP-68 RP-151068 0511r1 Introduction of CA_3A-40A to TS 36.307 R13 13.0.0						
					Further revision of RSRP requirement for 36.307 release 12	

05-2015	RP-68	RP-150958				Introduction of dual uplink CA into 36.307	13.0.0
05-2015	RP-68	RP-150968	499r2			Release independence CR for 2DL inter-band CA Rel-13	13.0.0
05-2015	RP-68	RP-150972	503r1			Release independence CR for 3DL inter-band CA Rel-13	13.0.0
05-2015	RP-68	RP-150974	506r1			Release independence CR for 4DL inter-band CA Rel-13	13.0.0
05-2015	RP-68	RP-150975	509			Introduction of non-contiguous Carrier Aggregation (CA) in Band 42 for 3DL	13.0.0
05-2015	RP-68	RP-151006	514			Introduction of CA_42D to TS 36.307	13.0.0
09-2015	RP-69	RP-151501	0520r1			Introduction of finished 4DL inter-band CAs to TS 36.307	13.1.0
09-2015	RP-69	RP-151503				[Rel-13] Introduction of dual uplink CA into 36.307	13.1.0
09-2015	RP-69	RP-151499	0538			Rel-13 3DL combinations	13.1.0
09-2015	RP-69	RP-151201	0543			Introduction of CA_7A-40A and CA_7A-40C to TS 36.307 R13	13.1.0
10-2015						Correction of the release in the cover page	13.1.1
12-2015	RP-70	RP-152158	0543a			Release independent requirements for CA_42E (Rel-13)	13.2.0
12-2015	RP-70	RP-152160	0549			Introduction of 4DL NC CA in band42 in 36.307	13.2.0
12-2015	RP-70	RP-152157	0561			Introducing B20 + B67 CA into TS 36.307	13.2.0
12-2015	RP-70	RP-152168	0562			Introduction of intra-band CA_8B to TS 36.307	13.2.0
12-2015	RP-70	RP-152171	0580			Introduction of Band 65	13.2.0
12-2015	RP-70	RP-152167	0589			Introduction of intra-band CA_5B to TS 36.307	13.2.0
12-2015	RP-70	RP-152169	0590			Introduction of intra-band NC CA_5A-5A to TS 36.307	13.2.0
12-2015	RP-70	RP-152166				Introduction of 3DL/3UL Inter-band CA in TS36.307	13.2.0
12-2015	RP-70	RP-152163	0598			Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-13)	13.2.0
12-2015	RP-70	RP-152162	0604			Introduction of finished 4DL inter-band CAs to TS 36.307	13.2.0
12-2015	RP-70	RP-152173	0612			Introduction of 1447-1467MHz Band into 36.307	13.2.0
12-2015	RP-70	RP-152156	0616			Rel-13 2DL combinations	13.2.0
12-2015	RP-70	RP-152161	0620			Rel-13 3DL combinations	13.2.0
12-2015	RP-70	RP-152172	0628			Introduction of Band 66	13.2.0
12-2015	RP-70	RP-152159	0632			Introduction of intra-band non-contiguous CA in Band 41 for 4DL	13.2.0
12-2015	RP-70	RP-152165	0634			Introduction of 2 UL and 3 DL mixed inter/intra cases without MSD into 36.307 Rel-13	13.2.0
03/2016	RP-71	RP-160480	0655		В	Rel-13 3DL combinations	13.3.0
03/2016	RP-71		0642		В	Introduction of completed R13 4DL inter-band CA's to TS 36.307	13.3.0
03/2016	RP-71	RP-160482	0651		В	Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-13)	13.3.0
03/2016	RP-71	RP-160483	0647		В	Introduction of Band 68	13.3.0
2016/06	RP-72	RP-161142	0682	1	F	CR TS 36.307 REL-13	13.4.0
2016/06	RP-72	RP-161142	0691	1	F	Correction of RRM multiple uplink requirements and test cases in 36.307	13.4.0
09/2016	RP-73	RP-161628	0693		A	Release 13 36.307 CAT A CR to make Band 41 power class 2 release independent	13.5.0
09/2016	RP-73	RP-161613	0705	İ	В	CR for 4Rx requirements for release independent in Rel-13	13.5.0
12/2016	RP-74	RP-162387		1	В	Introduction of B46 DL 10 MHz release independent feature	13.6.0
12/2016	RP-74	RP-162498		1	А	Addition of CA bandwidth Class F	13.6.0
12/2016	RP-74	RP-162459		2	А	Correction UE category applicability	13.6.0
12/2016	RP-74		0718	1	В	Introduction of new bands for NB-IoT in 36.307	13.6.0
12/2016	RP-74		0720		F	Addition of UE category 0 and M1 to release independence specification	13.6.0
06/2017	RP-76	RP-171291	0748	1	F	Cleanup of TS 36.307	13.7.0
09/2017		RP-171943			F	CR for adding NB-IoT performance requirements in 36.307 in Rel- 13	13.8.0
09/2017	RP-77	RP-171973	4356	1	F	CR for adding overlapping band B66 in 36.307 in Rel-13	13.8.0
09/2017		RP-172044		1	В	Additional LTE bands for UE category M1 and/or NB1 in Rel-15	13.8.0
2018-03		RP-180288		1	A	Addition of missing features for TS 36.307 REL-13	13.9.0
2018-03		RP-180276		İ	В	Introduction of 4UL CA into TS36.307	13.9.0
2018-06		RP-181113		1	В	TS 36.307 Rel-13	13.10.0
2018-06		RP-181097	4386	1	A	TS 36.307 big CR for introduction new band support for 4Rx antenna ports R13	13.10.0
2018-06	RAN#80	RP-181087	4396	1	В	TS 36.307 big CR for introduction new band support for 8Rx antenna ports R13	13.10.0
2018-06	RAN#80	RP-181095	4398	1	В	Introduction of 3UL CA into TS36.307	13.10.0
2018-12		RP-182377	4407	1	B	CR of adding B65 for NB1	13.11.0

	Document history						
V13.1.1	January 2016	Publication					
V13.2.0	January 2016	Publication					
V13.3.0	April 2016	Publication					
V13.4.0	August 2016	Publication					
V13.5.0	October 2016	Publication					
V13.6.0	January 2017	Publication					
V13.7.0	July 2017	Publication					
V13.8.0	October 2017	Publication					
V13.9.0	April 2018	Publication					
V13.10.0	July 2018	Publication					
V13.11.0	January 2019	Publication					

## History