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LTE;

Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 14.3.0 Release 14)





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1 Scope

The present document specifies requirements for Rel-14 UEs supporting release independent features like:

- additional E-UTRA operating frequency bands on top of Rel-14 of TS 36.101 [2] and TS 36.133 [3];
- additional E-UTRA CA configurations (intra-band/inter-band) on top of Rel-14 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).

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.
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- [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".
- [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
SDR	Sustained Data Rate
TDD	Time Division Duplex
UE	User Equipment

3.3 Symbols

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

N	Release in which a feature is introduced into TS 36.101 [2] or TS 36.133 [3]
M	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-14 UE for additional E-UTRA operating bands compared to TS 36.101 Rel-14 [2] are introduced via this clause.

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

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
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

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-14 UE for additional E-UTRA CA configurations compared to TS 36.101 Rel-14 [2] are introduced via this clause.

Table 3A.2-1: Intra-band contiguous CA configurations

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 was 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	
		D	TDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1	
Intra-band contiguous CA configurations		ı	Е	TDD	Rel-11	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1
		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	
		С	FDD, 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.2-2: Inter-band CAconfigurations

Feature	DL/UL	number of bands	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)	
			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	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	
			A, B, C, D	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	
				Α	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
		3	B, 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	
Inter-band CA			Α	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 A, C	۸. ۵	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	
			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	
		5	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	
				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	
		L 2	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	
			Α	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	

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.

NOTE2: CA configurations involving downlink only operation in Band 46 are release independent from Rel-13 onwards (LAA was introduced in Rel-13).

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 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.

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

Feature	DL/UL	number of sub- blocks	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-	DL	2	A, C, D	FDD, TDD	Rel-11	Table B.2.3-1, Table B.3.2-1, Table B.4.5-1
contiguous CA configurations	UL	2	Α	FDD	Rel-11	Table B.2.3-1, Table B.3.2-1, Table B.4.5-1

NOTE1: The duplex mode "FDD, TDD" refers to a CA configuration composed by only FDD bands or only TDD bands, respectively.

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-14 UE corresponding requirements are then introduced via this clause.

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
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
Operating bands for UE category NB1	Rel-13	Table B.2.8-1, Table B.4.9-	Rel-14 WI NB_IOT_R14_bands introduced RF and RRM for bands 11, 21, 25, 31, 70, see Table B.2.8-1, Table B.4.9-1

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

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

3A.4 Other release independent features

This clause covers requirements for a Rel-14 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.

Table 3A.4-1: Additional requirements of other release independent features

Feature	Release independent from	Requirements to be fulfilled (see 36.307 of the REL when the feature was introduced)	Further information
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
RRM and demodulation requirements for high separation	, ,	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.

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Annex A (informative): Frequency arrangement for overlapping operating bands

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

The overlapping bands, independent of release, which may be indicated in a cell are shown in Table A-1 for applicable E-UTRA bands. The DL EARFCN and UL EARFCN are derived according to TS 36.101 Rel-14 [2].

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

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

Annex B (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-14 [3].

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

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

- NOTE 1: All requirements and the corresponding test cases shall apply, except:
 - for supporting the corresponding band in Rel-9 and below: clause 4.3 (Minimization of Drive Tests).
- NOTE 2: All requirements and the corresponding test cases shall apply, except:
 - 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).
- NOTE 3: All requirements and corresponding test cases shall apply, except those defined in sections 7.4 and 7.5
- NOTE 4: All requirements and corresponding test cases shall apply, except:
 - 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).
- NOTE 5: All requirements and corresponding test cases shall apply, except:
 - for supporting the corresponding band in Rel-8: clauses 9.1.9 (UE Rx–Tx time difference), 9.1.10 (Reference Signal Time Difference).
 - 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.
 - 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.
- NOTE 6: In addition to the exceptions above, all requirements and test cases in this table shall apply, except those defined for:
 - carrier aggregation;
 - for supporting the corresponding band in Rel-9 or below: measurements under time-domain measurement resource restriction without CRS assistance information;
 - for supporting the corresponding band in Rel-10 or below: measurements under time-domain measurement resource restriction with CRS assistance information;
 - for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12.

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-14 [3].

Table B.2.2-1: Common RRM requirements for a release independent 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
NOTE 2: In addition to the ex for supporting the supporting to requirement under 70dBm is ±6dB For supporting to requirement under 70dBm is ±6dB.	and test cases defined for intra-band contiguous carrier aggregation shall apply. Acceptions above, all requirements and test cases in this table shall apply, except: the corresponding band in Rel-11 or below: requirements introduced in Rel-12. The corresponding band in Rel-11 or below: the RSRP absolute accuracy the 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≤-the corresponding band in Rel-11 or below: the interfrequency RSRP relative the tent under normal conditions in table 9.1.3.2-1 is ±6dB.

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 TS 36.133 Rel-14 [3].

Table B.2.3-1: Common RRM requirements for a release independent 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

NOTE 1: Only requirements and test cases defined for intra-band non-contiguous carrier aggregation with single uplink 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.

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

- 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.

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-14 [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
apply. NOTE 2: In addition to the	s and test cases defined for inter-band with single uplink carrier aggregation shall exceptions above, all requirements and test cases in this table shall apply, except: the corresponding band in Rel-11 or below: requirements introduced in Rel-12.
	the corresponding band in Rel-11 or below: the RSRP absolute accuracy

- 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.
 - 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.

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-14 [3].

Table B.2.5-1: Common RRM requirements for a release independent band-combination 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
NOTE 1: Only requirements apply.	and test cases defined for inter-band with dual uplink carrier aggregation shall
for supporting tNOTE 3: - For supporting t	exceptions above, all requirements and test cases in this table shall apply, except: the corresponding band in Rel-11 or below: requirements introduced in Rel-12. 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 lo≤-
	ne 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.2.6 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-14 [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
NOTE 1: Only requirement	ts and test cases defined for intra-band non-contiguous carrier aggregation with

NOTE 1: Only requirements and test cases defined for intra-band non-contiguous carrier aggregation with dual uplinks 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.

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.

- 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 $\pm 6dB$.

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 TS 36.133 Rel-14 [3].

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
	ents defined for three uplink carrier aggregation shall apply. There are no test cases three uplink carrier aggregation configuration.
	ne exceptions above, all requirements and test cases in this table shall apply, except: ing the corresponding band in Rel-11 or below: requirements introduced in Rel-12.
requirement un 70dBm is ±6dB	
- for supporti	ng the corresponding band in Rel-11 or below: the interfrequency RSRP relative

B.2.8 Common RRM requirements for operating bands for UE category NB1

accuracy requirement under normal conditions in table 9.1.3.2-1 is ±6dB.

The requirements and test cases listed in Table B.2.8-1 are specified in TS 36.133 Rel-14 [3].

Table B.2.8-1: Common RRM requirements for release independent operating bands for UE category NB1

Section / Clause	Description
4.6	Cell Selection and Reselection Requirements for UE category NB1
6.6	Random Access for UE category NB1
7.23	Radio Link Monitoring for category NB1 UE
8.14	Measurements for UE category NB1
9.1.22	Measurement accuracy for UE Category NB1
9.1.23	Power Headroom for UE category NB1
NOTE 1: Only requirements and test cases defined for UE category NB1 shall apply.	

B.2.9 Common RRM requirements for operating bands for UE category 0

The requirements and test cases listed in Table B.2.9-1 are specified in TS 36.133 Rel-14 [3].

Table B.2.9-1: Common RRM requirements for release independent operating bands for a UE category 0

Section / Clause	Description
7.11	Radio Link Monitoring for UE category 0
8.5	Measurements for UE category 0
9.1.13	Measurement accuracy for UE category 0

B.2.10 Common RRM requirements for operating bands for UE category M1

The requirements and test cases listed in Table B.2.10-1 are specified in TS 36.133 Rel-14 [3].

Table B.2.10-1: Common RRM requirements for release independent operating bands for a UE category M1

Section / Clause	Description
4.2.2.11	Measurement and evaluation requirements for UE in enhanced coverage
5.5	E-UTRAN Handover for cat.M1 UEs in CEModeA
5.6	E-UTRAN Handover for cat.M1 UEs in CEModeB
6.2.3	Requirements for cat.M1 UEs
6.7	RRC Re-establishment for cat.M1 UEs
7.19	Radio Link Monitoring for UE Category M1
7.24	UE transmit timing for category M1
8.13	Measurements for UE category M1
9.1.21	Measurement accuracy for UE category M1

B.3 Common UE performance requirements

B.3.1 Void

Table B.3.1-1: 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-14 [2].

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

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)
NOTE 1: The applicability of Section 8.1.2.3 and	requirements for different CA configurations and bandwidth combination sets is specified in
NOTE 2: The test coverage	for different number of component carriers is defined in 8.1.2.4.

B.3.3 Void

Table B.3.3-1: Void

B.3.4 Void

B.3.5 Common UE performance requirements and tests for operating bands for UE category 0

The requirements and test cases listed in Table B.3.5-1 are specified in TS 36.101 Rel-14 [2].

Table B.3.5-1: Common UE performance requirements and tests for release independent operating bands for UE category 0

Section / Clause	Description
8.9	Demodulation (single receiver antenna)
9.7	CSI reporting (Single receiver antenna)

B.3.6 Common UE performance requirements and tests for operating bands for UE category M1

The requirements and test cases listed in Table B.3.6-1 are specified in TS 36.101 Rel-14 [2].

Table B.3.6-1: Common UE performance requirements and tests for release independent operating bands for UE category M1

Section / Clause	Description
8.11	Demodulation (UE supporting coverage enhancement)
9.8	CSI reporting (UE supporting coverage enhancement)

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-14 [2].

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

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

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-14 [2].

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

Section / Clause	Description
5.5A	Operating bands for CA
5.6A	Channel bandwidths per operating band for CA
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 with additional requirements for CA
6.2.5A	Configured transmitted power for CA
6.3.2A	UE Minimum utput power for CA
6.3.3A	UE Trasnsmit 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
6.6.2.2A	Additional Spectrum Emission mask for CA
6.6.2.3.2A	UTRA ACLR for CA
6.6.2.3.3A	E-UTRA ACLR for CA
6.6.3.1A	Minimum requirements for CA
6.6.3.2A	Spurious emission band UE co-existence for CA
6.6.3.3A	Additional spurious emissions for CA
6.7.1A	Minimum requirement 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
7.10.1A	Receiver response for CA

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-14 [2].

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

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

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-14 [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-14 [2].

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

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

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-14 [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-14 [2].

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

Section / Clause	Description
5.6A.1	Channel bandwidths per operating band for CA
6.2.2A	UE maximum output power for CA
6.2.3A	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

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-14 [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 Common UE RF requirements for operating bands for UE category NB1

The requirements and test cases listed in Table B.4.9-1 are specified in TS 36.101 Rel-14 [2].

Table B.4.9-1: Common UE RF requirements for release independent operating bands for UE category NB1

Section / Clause	Description
5.5F	Operating bands for category NB1
5.6F	Channel bandwidth for category NB1
5.7.1F	Channel spacing for category NB1
5.7.2F	Channel raster for category NB1
5.7.3F	Carrier frequency and EARFCN for category NB1
5.7.4F	TX-RX frequency separation for category NB1
6.2.2F	UE maximum output power for category NB1
6.2.3F	UE maximum output power for category NB1
6.2.5F	Configured transmitted Power for category NB1
6.3.2F	UE Minimum output power for category NB1
6.3.3F	Transmit OFF power for category NB1
6.3.4F	ON/OFF time mask for category NB1
6.3.5F	Power Control for category NB1
6.5.1F	Frequency error for UE category NB1
6.5.2F	Transmit modulation quality for Category NB1
6.6.1F	Occupied bandwidth for category NB1
6.6.2F	Out of band emission for category NB1
6.6.3F	Spurious emission for category NB1
6.7.1F	Transmission intermodulation for category NB1
7.3.1F	Reference sensitivity for UE category NB1
7.4.1F	Maximum input level for category NB1
7.5.1F	Adjacent channel selectivity for category NB1
7.6.1.1F	In-band blocking for category NB1
7.6.2.1F	Out-of-band blocking for category NB1
7.7.1F	Spurious response for category NB1
7.8.1F	Intermodulation characteristics for category NB1

B.4.10 Common UE RF requirements for operating bands for UE category 0

The requirements and test cases listed in Table B.4.10-1 are specified in TS 36.101 Rel-14 [2].

Table B.4.10-1: Common UE RF requirements for release independent operating bands for UE category 0

Section / Clause	Description
5.5E	Operating bands for UE category 0
7.3.1E	Minimum requirements (QPSK) for UE category 0

B.4.11 Common UE RF requirements for operating bands for UE category M1

The requirements and test cases listed in Table B.4.11-1 are specified in TS 36.101 Rel-14 [2].

Table B.4.11-1: Common UE RF requirements for release independent operating bands for UE category 0

Section / Clause	Description
5.5E	Operating bands for UE category 0 and UE category M1
6.2.2E	UE maximum output power for Category M1 UE
6.2.3E	UE maximum output power for modulation / channel bandwidth for category M1
6.2.4E	UE maximum output power with additional requirements for category M1 UE
6.3.5E	Power control for category M1
6.5.2E	Transmit modulation quality for category M1
7.3.1E	Minimum requirements (QPSK) for UE category 0 and M1
7.5	Adjacent Channel Selectivity (ACS)
7.6.1	In-band blocking
7.6.2	Out-of-band blocking
7.6.3	Narrow band blocking
7.8.1	Wide band intermodulation

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-14 [2].

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

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				

The requirements and test cases listed in Table C.1-2 are specified in TS 36.101 Rel-14 [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-14 [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-14 [2].

Table C.2-2: UE Demodulation and CSI requirements for 4Rx CA/DC

Section / Clause	Description
8.13	Demodulation of PDSCH CA
8.7.9	SDR of FDD CA (4 layer MIMO)
8.7.10	SDR of TDD CA (4 layer MIMO)
8.7.11	SDR of TDD-FDD CA (4 layer MIMO)
8.7.13	SDR of FDD DC (4 layer MIMO)
8.7.14	SDR of TDD DC (4 layer MIMO)
8.7.15	SDR of TDD-FDD DC (4 layer MIMO)
9.1.1.4.2	CSI CA tests for 4Rx UE

Annex D:

Common Requirements for performance enhancements for high speed scenario

D.1 Common RRM requirements for performance enhancements for high speed scenario

The requirements and test cases listed in Table D.1-1 are specified in TS 36.133 Rel-14 [3].

Table D.1-1: RRM requirements for performance enhancements for high speed scenario

Section / Clause	on / Clause Description			
4.2	Cell Re-selection			
8.1.2.2	E-UTRAN intra frequency measurements in RRC			
	connected state			

D.2 Common UE demodulation requirements for performance enhancements for high speed scenario

The requirements and test cases listed in Table D.2-1 are specified in TS 36.101 Rel-14 [2].

Table D.2-1: UE Demodulation requirements for performance enhancements for high speed scenario

Section / Clause	Description
8.2.1.9	FDD PDSCH
8.2.2.9	TDD PDSCH

Annex E (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				Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.2.0
12-2010	RP-50					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	DD 50	DD 440004	045			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-53	RP-110812 RP-111255				Add 2GHz S-Band (Band 23) in 36.307 (Rel 10) Add Band 22 for LTE/UMTS 3500 (FDD) to TS 36.307	10.1.0
09-2011 03-2012	RP-55	RP-111255				Introduction of Band 26/XXVI to TS 36.307	11.0.0
2012-06	RP-55	RP-120305		 		Introduction of Band 26/AXVI to 15 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				Introduction of APAC700(TDD) into TS 36.307 Rel-11	11.1.0
2012-06	RP-56	RP-120791				Introduction of e850_LB (Band 27) to TS 36.307	11.1.0
2012-09	RP-57	RP-121335				Introduction of CA_1A-21A to TS 36.307	11.2.0
2012-09	RP-57	RP-121295				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				TS 36.307 CR for CA_38	11.2.0
2012-09	RP-57	RP-121327				Introduction of CA_B7_B20 in 36.307	11.2.0
2012-09	RP-57	RP-121329	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				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 2012-12	RP-58 RP-58	RP-121890 RP-121889	086 088			Introduction of CA_4A-5A into 36.307 Introduction of CA band combination Band4 + Band13 to TS	11.3.0 11.3.0
2012-12	RP-58	RP-121896	091			36.307 (Rel-11) 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				Introduction of CA_B5_B12 in 36.307	11.3.0
2012-12	RP-58	RP-121887				Introduction of CA_4-12 into TS 36.307 (Rel-11)	11.3.0
2012-12	RP-58	RP-121882				[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				Introduction of Band 29	11.3.0
2012-12	RP-58	RP-121718				Introduction of CA band combination Band2 + Band17 to TS 36.307 (Rel-11)	11.3.0
2012-12	RP-58	RP-121720	0104			Introduction of CA band combination Band4 + Band17 to TS 36.307 (Rel-11)	11.3.0
2013-06	RP-60	RP-130771				Introduction of CA 1+8 into TS36.307(Rel-12)	12.0.0
2013-06	RP-60	RP-130782				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				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	143			Introduction of LTE 450 into TS 36.307 R12	12.0.0

2013-06 RP-60 RP-130978 150 Introduction of CA A4-A4 Into 36,307 Rel-12 12.0.0 202-013 RP-61 RP-131296 160 Rel-12 Add requirements for CA 1A-264 Into 7536,307 12.1.0 202-013 RP-61 RP-131296 161 Introduction of Inter-band CA Band 2+5 12.1.0 202-013 RP-61 RP-131296 167 Introduction of Inter-band CA Band 2+5 12.1.0 202-013 RP-61 RP-131296 167 Introduction of Inter-band CA Band 2+5 12.1.0 202-013 RP-62 RP-131966 173 Introduction of Inter-band CA Band 2+5 12.1.0 202-013 RP-62 RP-131966 173 Introduction of CA 24A-84 to T5 36.307 12.2.0 202-013 RP-62 RP-131967 181 Introduction of CA 24A-84 to T5 36.307 12.2.0 202-013 RP-62 RP-131967 181 Introduction of CA 24A-84 to T5 36.307 12.2.0 202-013 RP-62 RP-131967 194 Introduction of CA 24B-15 to T5 36.307 12.2.0 202-013 RP-62 RP-131967 194 Introduction of LTE CA C 827 to 8-307 (Rel-12) 12.2.0 202-013 RP-62 RP-131967 194 Introduction of CA 24B-15 to T5 36.307 12.2.0 202-013 RP-62 RP-131967 2011 Introduction of CA 24B-15 to T5 36.307 12.2.0 202-013 RP-62 RP-131967 2011 Introduction of CA 24B-15 to T5 36.307 12.2.0 202-013 RP-62 RP-131967 2011 Introduction of CA 24B-15 to T5 36.307 12.2.0 202-013 RP-62 RP-131967 2011 Introduction of CA 24B-15 to T5 36.307 12.2.0 202-013 RP-62 RP-131967 2011 Introduction of CA 24B-15 to T5 36.307 12.2.0 202-013 RP-62 RP-131967 2011 Introduction of CA 24B-15 to T5 36.307 12.2.0 202-013 RP-62 RP-131967 2011 Introduction of CA 24B-15 to T5 36.307 12.2.0 202-014 RP-63 RP-140386 27 Introduction of CA 24B-15 to T5 36.307 12.2.0 202-014 RP-62 RP-131967 2011 Correction to release independent specification 12.2.0 202-014 RP-63 RP-140386 27 Introduction of CA 24B-15 to T5 36.307 12.2.0 202-014 RP-63 RP-140386 27	0040.00	IDD 00	DD 400707	450	1.	40.00
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99-2013 RP-61 RP-1319287 163 Introduction of CA_2A-A4 to TS_96.307 121.00 122.013 RP-62 RP-131965 173 Introduction of CA_2A-A5 to TS_96.307 122.00 122.013 RP-62 RP-131964 178 Introduction of CA_2A-A5 to TS_96.307 122.00 122.013 RP-62 RP-131964 181 Introduction of CA_2A-A5 to TS_96.307 122.01 122.013 RP-62 RP-131959 184 Introduction of CA_2A-A5 to TS_96.307 122.01 122.013 RP-62 RP-131959 184 Introduction of CA_2A5 to TS_96.307 122.01 122.013 RP-62 RP-131957 192 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131957 192 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131957 192 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131957 192 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131967 2011 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131967 2011 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131967 2011 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131968 204 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131968 204 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131967 217 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131968 207 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131968 207 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131968 207 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131968 207 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131967 217 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131968 207 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-62 RP-131968 207 Introduction of CA_2B5 to TS_96.307 122.01 122.013 RP-63 RP-140386 227 Introduction of CA_2B5 to TS_96.307 122.01 122.01 122.01 122.01 122.01 12						
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12-2013 RP-62 RP-131964 178 Introduction of CA band combination Band2 + Band12 to TS 12-20 13-2013 RP-62 RP-131965 181 Introduction of CA band combination Band12 + Band25 to TS 12-20 12-2013 RP-62 RP-131965 194 Introduction of LTE CA. C. B2T to 36.307 (Rel-12) 12-20 12-2013 RP-62 RP-131965 194 Introduction of CA. 281 to TS 36.307 12-20 12-2013 RP-62 RP-131965 194 Introduction of CA. 281 to TS 36.307 (Rel-12) 12-20 12-20 RP-62 RP-131965 194 Introduction of CA. 281 to TS 36.307 12-20 12-20 RP-62 RP-131967 2011 Introduction of CA. 281 to TS 36.307 12-20 12-20 RP-62 RP-131967 2011 Introduction of CA. 281 to Release independent of Law and Introduction of CA. 281 to Release independent specification 12-20 RP-62 RP-131968 204 Introduction of CA. band combination Band5 + B3 6.307 R12 12-20 RP-62 RP-131968 207 Introduction of CA band combination B3 + B3 6.307 R12 12-20 RP-62 RP-131968 207 Introduction of CA band combination B4 + B28 to TS 36.307 R12 12-20 RP-62 RP-131968 216 Introduction of CA band combination B7 + B28 to TS 36.307 R12 12-20 RP-62 RP-131968 216 Introduction of CA band combination B7 + B28 to TS 36.307 R12 R12 R12 R13 R14 R14						
38,307		RP-62				
38,307	12-2013	RP-62	RP-131946	178		12.2.0
12-2013 RP-62 RP-131987 192 Introduction of LTE_CA_C_B27 to 36.307 (Rel-12) 12-2.0	12-2013	RP-62	RP-131954	181	Introduction of CA band combination Band12 + Band25 to TS	12.2.0
12-2013 RP-62 RP-131967 192 Introduction of CA 238 to TS 36.307 12-2.0	12-2013	RP-62	RP-131959	184		12.2.0
Introduction of Intra-band non-contiguous CA in band 3 to TS 12.2.0	12-2013	RP-62				12.2.0
12-2013 RP-62 RP-131967 201r1 Introduction of CA band combination Band5 + Band25 to TS 12.2.0 38.307 12-2013 RP-62 RP-131967 201r1 Introducing General clause with note referring to note in clause 12.2.0 4.4 in TS36.101, editional corrections and modifications to Forward and Scope clauses 12-2013 RP-62 RP-131948 204 Introduction of CA band combination BS + B7 to TS 36.307 R12 12.2.0 12-2013 RP-62 RP-131967 211 Correction to release independent specification 12.2.0 12-2013 RP-62 RP-131967 211 Correction to release independent specification 12.2.0 12-2013 RP-62 RP-131963 219 Introduction of CA Dand combination B7 + B28 to TS 36.307 12.2.0 12-2013 RP-62 RP-131963 219 Introduction of CA Dand combination Band 3 and Band 27 to TS 12.3.0 13-2014 RP-63 RP-140389 245r1 Introduction of CA Dand combination Band 3 and Band 27 to TS 36.307 12.3.0 13-2014 RP-63 RP-140389 245r1 Introduction of CA Dand combination Band 3 and Band 27 to TS 36.307 12.3.0 13-2014 RP-63 RP-140389 245r1 Introduction of CA Dand combination Band 3 and Band 27 to TS 36.307 12.3.0 13-2014 RP-63 RP-140389 245r1 Introduction of CA Dand combination Band 3 and Band 27 to TS 23.0 36-2014 RP-64 RP-140918 300 Introduction of CA Dand combination Band 3 and Band 27 to TS 23.0 36-2014 RP-64 RP-140918 300 Introduction of CA Dand combination Band 1 and Band 5 to TS 36.307 12.3.0 36-2014 RP-64 RP-140918 300 Correction to release independent specification 12.4.0 36-2014 RP-64 RP-140918 300 Correction to Correction to Correction to Care Dand Combination Band 1 and Band 5 to TS 36.307 12.4.0 36-2014 RP-64 RP-140918 300 Correction to Correction to Care Dand Combination Band 1 and Band 5 to TS 36.307 12.4.0 36-2014 RP-64 RP-140918 301 Introduction of CA Dand Combination Band 4 and Band 27 to TS 36.307 12.4.0 36-2014 RP-64 RP-140918 301 Introduction of	12-2013	RP-62			Introduction of Intra-band non-contiguous CA in band 3 to TS	12.2.0
4.4 in TS36.101, editorial corrections and modifications to	12-2013	RP-62	RP-131950	200	Introduction of CA band combination Band5 + Band25 to TS	12.2.0
12-2013 RP-62 RP-131952 207 Introduction of CA band combination B7 + B28 to TS 36.307 12.2.0	12-2013	RP-62	RP-131967	201r1	4.4 in TS36.101, editorial corrections and modifications to	12.2.0
12.2013 RP-62 RP-131952 207 Introduction of CA band combination B7 + B28 to TS 36.307 12.20	12-2013	RP-62	RP-131948	204		12.2.0
12.2013 RP-62 RP-131967 211 Correction to release independent specification 12.20						
12.2013 RP-62 RP-131965 216 UE performance requirements in release independent 12.2.0 specification for CA 12.2013 RP-62 RP-131963 219 Introduction of CA, 7A-7A to TS 36.307 Rel-12 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-140388 245f1 Correction to release independent specification 12.3.0 03.2014 RP-63 RP-140388 245f1 Correction to release independent specification 12.3.0 03.2014 RP-63 RP-140388 245f1 Correction to release independent specification 12.3.0 03.2014 RP-63 RP-140388 210f1 Introduction of CA, 39.20 to TS 36.307 12.3.0 03.2014 RP-63 RP-140387 197f1 Introduction of CA, 39A-41A to TS 36.307 12.3.0 06.2014 RP-64 RP-140918 300 Correction of Common RRM requirements for CA in release independent specification (Rel-12) Introduction of CA band combination Band 1 and Band 5 to TS 36.307 12.4.0 06.2014 RP-64 RP-140918 300 Correction of Common RRM requirements for CA in release independent specification (Rel-12) Introduction of CA band combination Band 2 to TS 36.307 12.4.0 06.2014 RP-64 RP-140931 265 Introduction of CA band combination Band 4 and Band 27 to TS 36.307 12.4.0 06.2014 RP-64 RP-140933 275 Introduction of CA band combination Band 4 and Band 27 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 12.4.0 06.2014 RP-64 RP-140940 319 Introduction of CA band combination Band 3 and Band 27 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 12.4.0 06.2014 RP-64 RP-140940 319 Introduction of CA band combination Band 3 and Band 27 to TS 36.307 12.4.0 06.2014 RP-64 RP-140940 347 Introduction of CA band combination Band 3 and Band 27 to TS 36.307 12.4.0 06.2014 RP-65 RP-141130 03.667 Introduc						
12.2013 RP-63 RP-1431963 219 Introduction of CA_7A-7A to TS_36_307 Rel-12 12.2_0					UE performance requirements in release independent	
193-2014 RP-63 RP-140381 235 Release independence of Band 14 HPUE 12.3.0	12-2013	RP-62	RP-131963	219		12.2.0
03-2014 RP-63 RP-140386 227 Introduction of CA band combination Band 3 and Band 27 to TS 36.307 12.3.0 03-2014 RP-63 RP-140388 245r1 Correction to release independent specification 12.3.0 03-2014 RP-63 RP-140387 210r1 Introduction of CA. 394-741 to TS 36.307 12.3.0 03-2014 RP-63 RP-140387 197r1 Introduction of CA. 394-741 to TS 36.307 12.3.0 06-2014 RP-64 RP-140911 259 Introduction of CA. 394-741 to TS 36.307 12.3.0 06-2014 RP-64 RP-140911 259 Introduction of CA band combination Band 1 and Band 5 to TS 36.307 12.4.0 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-140981 255 Introduction of CA 191 to 36.307 (Rel-12) 12.4.0 06-2014 RP-64 RP-140933 255 Introduction of CA 2A-2A to TS 36.307 Rel-12 12.4.0 06-2014 RP-64 RP-140933 291 Introduction of CA 2A-2A to TS 36						
03-2014 RP-63 RP-140388 210r1 Introduction of CA 39C to TS 36.307 12.3.0 03-2014 RP-63 RP-140388 210r1 Introduction of CA 39C to TS 36.307 12.3.0 03-2014 RP-63 RP-140987 197r1 Introduction of CA 39A-41A to TS 36.307 12.3.0 06-2014 RP-64 RP-140918 300 Correction of CA band combination Band 1 and Band 5 to TS 36.307 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-140938 280r1 Introduction of GA Band 20-32 CA 12.4.0 06-2014 RP-64 RP-140931 265 Introduction of GA Band 20-32 CA 12.4.0 06-2014 RP-64 RP-140932 275 Introduction of CA Dand 20-37 Rel-12 12.4.0 06-2014 RP-64 RP-140933 291 Introduction of CA Dand 20-37 Rel-12 12.4.0 06-2014 RP-64 RP-140933 319 Introduction of CA Dand 20-37 Rel-12 12.4.0 06-2014 RP-64 RP-140942 <td></td> <td></td> <td></td> <td></td> <td>Introduction of CA band combination Band 3 and Band 27 to TS</td> <td></td>					Introduction of CA band combination Band 3 and Band 27 to TS	
19.3-2014 RP-63 RP-140388 210r1 Introduction of CA 39A-41A to TS 36.307 12.3.0	03-2014	RP-63	RP-1/0380	2/15r1		1230
03-2014 RP-64 RP-140387 197r1 Introduction of CA 39A-41A to TS 36.307 12.3.0 06-2014 RP-64 RP-140918 300 Introduction of CA band combination Band 1 and Band 5 to TS 36.307 12.4.0 06-2014 RP-64 RP-14098 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 20+024 CA 12.4.0 06-2014 RP-64 RP-140933 275 Introduction of CA 20+024 CA 12.4.0 06-2014 RP-64 RP-140933 275 Introduction of CA 20+22 CA 12.4.0 06-2014 RP-64 RP-140933 291 Introduction of CA band combination Band and Band 27 to TS 36.307 12.4.0 06-2014 RP-64 RP-140940 319 Introduction of CA EAD CAPACE 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 36.307 (12.4.0 12.4.0 06-2014 RP-64 RP-140942 230 Introduction of CA band combination Band 1 and						
106-2014 RP-64 RP-140911 259 Introduction of CA band combination Band 1 and Band 5 to TS 36.307 12.4.0						
Correction of Common RRM requirements for CA in release 12.4.0						
independent specification (ReI-12)						
106-2014 RP-64 RP-140936 280r1 Introduction of Band 20-32 CA 12.4.0	00-2014	1111 04	140010			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 band combination Band 4 and Band 27 to TS 36.307 12.4.0 06-2014 RP-64 RP-140940 319 Introduction of CA_2A-2A to TS 36.307 Rel-12 12.4.0 06-2014 RP-64 RP-140940 319 Introduction of LTE_CA_NC_B42 into 36.307 12.4.0 06-2014 RP-64 RP-140942 253 Introduction of CA band combination Band 3 and Band 27 to TS 36.307 12.4.0 06-2014 RP-64 RP-140942 340 Introduction of CA band combination Band 1 and Band 20 to TS 36.307 12.4.0 06-2014 RP-65 RP-1410943 347 Introduction of CA band combination Band 1 and Band 20 to TS 36.307 (Rel-12) 12.4.0 09-2014 RP-65 RP-141100 0368r [Rel-12] Introduction of inter-band CA_18-28 into TS 36.307 (Rel-12) 12.5.0 09-2014 RP-65 RP-141200 0366r Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12) 12.5.0 09-2014 RP-65 RP-141332 0429r<	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 36.307 12.4.0 06-2014 RP-64 RP-140938 291 Introduction of CA_ZA-Zh to TS 36.307 Rel-12 12.4.0 06-2014 RP-64 RP-140940 319 Introduction of LTE_CA_NC_B42 into 36.307 12.4.0 06-2014 RP-64 RP-140942 253 Introduction of CA band combination Band 3 and Band 27 to TS 36.307 12.4.0 06-2014 RP-64 RP-140942 340 Introduction of CA band combination Band 1 and Band 20 to TS 36.307 12.4.0 06-2014 RP-64 RP-140943 347 Introduction of CA band combination Band 1 and Band 20 to TS 36.307 12.4.0 09-2014 RP-65 RP-141110 0388r [Rel-12] Introduction of inter-band CA_18-28 into TS 36.307 (Rel-12) 12.5.0 09-2014 RP-65 RP-141200 0366r Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12) 12.5.0 09-2014 RP-65 RP-141320 0363r Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12) 12.5.0 09-2014 RP-65 RP-141320 0376		RP-64	RP-140931	265	Introduction of CA 1+11 to 36.307 (Rel-12)	12.4.0
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 LTE_CA_NC_B42 into 36.307 12.4.0 06-2014 RP-64 RP-140942 253 Introduction of CA band combination Band 3 and Band 27 to TS 36.307 12.4.0 06-2014 RP-64 RP-140942 340 Introduction of CA band combination Band 1 and Band 20 to TS 36.307 12.4.0 06-2014 RP-64 RP-140942 340 Introduction of CA band combination Band 1 and Band 20 to TS 36.307 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 0366r Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12) 12.5.0 09-2014 RP-65 RP-141200 0366r Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12) 12.5.0 09-2014 RP-65 RP-141320 0363r Introduction of CA_B1_B3 into TS 36.307 (Rel-12) 12.5.0 09-2014 RP-65 RP-141320 0376r In		RP-64	RP-140933	275		
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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
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03-2015	RP-67	RP-150387	469			Further revision of RSRP requirement for 36.307 release 12	12.7.0
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05-2015	RP-68	RP-151070	0513r 1			Introduction of CA_3A-40C to TS 36.307 R13	13.0.0
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05-2015	RP-68	RP-150968	499r2			Release independence CR for 2DL inter-band CA Rel-13	13.0.0
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09-2015	RP-69	RP-151499	0538			Rel-13 3DL combinations	13.1.0
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10-2015	111 00	141 101201	0010			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
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12-2015	RP-70	RP-152173	0612			Introduction of 1447-1467MHz Band into 36.307	13.2.0
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03/2016	RP-71	RP-160481	0642		В	Introduction of completed R13 4DL inter-band CA's to TS 36.307	13.3.0
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06/2017	RP-76	RP-171291	0749	1	F	Cleanup of TS 36.307	14.3.0
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History

	Document history						
V14.2.0	April 2017	Publication					
V14.3.0	July 2017	Publication					