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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 10.24.0 Release 10)



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Contents

Intell	ectual Property Rights
Forev	vord2
Moda	l verbs terminology
Forev	vord4
1	Scope
2	References
3 3.1 3.2 3.3	Definitions and abbreviations
3A 3A.0 3A.1 3A.2 3A.3 3A.4	Release independent features 6 General 6 Additional E-UTRA operating bands 6 Additional E-UTRA CA configurations 7 Additional operating bands and/or CA configurations for specific features 8 Other release independent features 8
4 - 29	92 Void
Anne	ex A (informative): Frequency arrangement for overlapping operating bands10
Anne Anne	ex A (informative):Frequency arrangement for overlapping operating bands10ex B (normative):Common Requirements11
Anne Anne B.1	ex A (informative): Frequency arrangement for overlapping operating bands10 ex B (normative): Common Requirements
Annee Annee B.1 B.2 B.2.1 B.2.2 B.2.3	Ex A (informative): Frequency arrangement for overlapping operating bands 10 ex B (normative): Common Requirements 11 Purpose of annex 11 Common RRM requirements 11 Common RRM requirements for a release independent band 11 Void 11 Void 12
Annee B.1 B.2 B.2.1 B.2.2 B.2.3 B.3 B.3.1 B.3.2 B.3.3	ex A (informative): Frequency arrangement for overlapping operating bands 10 ex B (normative): Common Requirements 11 Purpose of annex 11 Common RRM requirements 11 Common RRM requirements for a release independent band 11 Void 12 Common UE performance requirements 12 Void 12
Anne B.1 B.2 B.2.1 B.2.2 B.2.3 B.3 B.3 B.3.1 B.3.2 B.3.3 B.4 B.4.1 B.4.2 B.4.3	ex A (informative):Frequency arrangement for overlapping operating bands
Annee B.1 B.2 B.2.1 B.2.2 B.2.3 B.3 B.3.1 B.3.2 B.3.3 B.4 B.4.1 B.4.2 B.4.3 Annee	ex A (informative):Frequency arrangement for overlapping operating bands10ex B (normative):Common Requirements11Purpose of annex11Common RRM requirements11Common RRM requirements for a release independent band11Void12Common UE performance requirements12Void13

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1 Scope

The present document specifies requirements for Rel-10 UEs supporting release independent features like:

- additional E-UTRA operating frequency bands on top of Rel-10 of TS 36.101 [2] and TS 36.133 [3];
- additional E-UTRA CA configurations (intra-band/inter-band) on top of Rel-10 of TS 36.101 [2] and TS 36.133 [3];
- additional operating bands and/or CA configurations for specific features;
- other release independent features (like 4Rx 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
CSI	Channel State Indicator
FDD	Frequency Division Duplex
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:

NRelease in which a feature is introduced into TS 36.101 [2] or TS 36.133 [3]MRelease 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-10 UE for additional E-UTRA operating bands compared to TS 36.101 Rel-10 [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-10 UE for additional E-UTRA CA configurations compared to TS 36.101 Rel-10 [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 was introduced)
		В	FDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1
Intro hand contiguous	DL	С	FDD, TDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1
CA configurations,		D	TDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1
power class 5	UL	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, power class 2	UL	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

CA feature	DL/UL	number of bands	number of CCs	CA BW Classes	Duplex- mode	Release independen t from	requirements to be fulfilled (see 36.307 of the REL in which the CA configuration was introduced)
Inter-band CA		2	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
configurations	DL	3	3	A	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
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 CA configurations

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.

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-10 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

Table 3A.3-2: CA configurations for	r specific features
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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-10 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.

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 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

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

4 - 292Void

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 36.101Rel-10 [2].

E-UTRA	Overlapping E-UTRA operating bands	Duplex Mode
Band	bands	moue
Danu		
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

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

Annex B (normative): Common Requirements

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-10 [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
NOTE 1: All requirements an - for supporting the con- NOTE 2: All requirements an - for supporting the co- Redirection) 6.4 (CSC	d the corresponding test cases shall apply, except: orresponding band in Rel-9 and below: clause 4.3 (Minimization of Drive Tests). d the corresponding test cases shall apply, except: orresponding band in Rel-8: clauses 6.3 (RRC Connection Release with B Provimity Indication for E-LITEAN and LITEAN)
NOTE 3: All requirements an	d corresponding test cases shall apply, except those defined in sections 7.4 and
 7.5. NOTE 4: All requirements an for supporting the cr RSTD Measurements) UTRAN E-CID Measur NOTE 5: All requirements an for supporting the cr (Reference Signal Tim NOTE 6: All requirements an aggregation; measur aventione listed ab 	d corresponding test cases shall apply, except: orresponding band in Rel-8: clauses 8.1.2.5 (E-UTRAN OTDOA Intra-Frequency , 8.1.2.6 (E-UTRAN Inter-Frequency OTDOA Measurements), 8.1.2.7 (E- rements). d corresponding test cases shall apply, except: orresponding band in Rel-8: clauses 9.1.9 (UE Rx–Tx time difference), 9.1.10 e Difference). d test cases in this table shall apply, except those defined for: carrier irrements under time-domain measurement resource restriction, in addition to the

Table B.2.1-1: Common RRM requ	irements for a release inde	pendent band
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B.2.2 Void

B.2.3 Void

B.3 Common UE performance requirements

- B.3.1 Void
- B.3.2 Void
- B.3.3 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-10 [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 Void

B.4.3 Void

Annex C (informative): Change history

Table C.1: Change History

Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New
11-2009	RP#46	RP-091141				TS36.307 V0.1.0 approved by RAN (Originally in R4-095022)	0.1.0
02-2010	R4#54	R4-100419				For release 9 version, replace sections 4 to 6 as 'Void' and add a new void section as section 7.	0.2.0
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
10.0010		DD 404050	000			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-30 RP-50	RP-101301	005			CP creating the rel-10 of the 36 307 specification	9.2.0
12-2010	KF-30	KF-101344	010			Band 42 and 43 parameters for LIMTS/LTE 3500 (TDD) for TS	9.3.0
	RP-50	RP-101356	012			36.307	
12-2010	RP-50					Raised to Rel-10 with no technical change	10.0.0
01-2011	DD 50	DD 440004	0.15			Correction to history table	10.0.1
06-2011	RP-52	RP-110804	015			Add Expanded 1900 MHz Band (Band 25) in 36.307	10.1.0
06-2011	RP-52 RP-53	RP-110612 RP-111255	022			Add 2GH2 S-Balld (Balld 23) III 30.307 (Rel 10)	10.1.0
03-2012	RP-55	RP-120305	023			Introduction of Band 26/XXVI to TS 36.307	10.3.0
2012-06	RP-56	RP-120778	036r1			Correction of references	10.4.0
2012-06	RP-56	RP-120789	042			Introduction of CA_1A-19A to TS 36.307	10.4.0
2012-06	RP-56	RP-120785	044r1			Backdating CA_41C to Rel-10	10.4.0
2012-06	RP-56	RP-120793	048			Introduction of APAC700(FDD) into TS 36.307 Rel.10	10.4.0
2012-06	RP-56	RP-120793	052			Introduction of APAC/00(IDD) into IS 36.307 Rel.10	10.4.0
2012-06	RP-50	RP-120791	050			Introduction of CA_1A_21A to TS_36.307	10.4.0
2012-09	RP-57	RP-121333	050 060r1			TS 36 307 CR for CA 38	10.5.0
2012-09	RP-57	RP-121327	061			Introduction of CA B7 B20 in 36.307	10.5.0
2012-09	RP-57	RP-121334	062r1			Add requirements for inter-band CA of B_1-18 in TS36.307	10.5.0
2012-09	RP-57	RP-121329	063			Introduction of CA band combination Band3 + Band5 to TS 36.307	10.5.0
2012-09	RP-57	RP-121338	064r1			36.307 CR for LTE_CA_B7	10.5.0
2012-09	RP-57	RP-121331	065			Introduction of CA_3A-20A to TS 36.307	10.5.0
2012-09	RP-57	RP-121333	066			Introduction of CA_8_20 RF requirements into TS36.307	10.5.0
2012-09	RP-97	RP-121295	06911			FBI indication	10.5.0
2012-09	RP-57	RP-121324	071			Introduction of CA_B3_B7 in 36.307	10.5.0
2012-12	RP-30 RP-58	RP-121804	085			Introduction of CA_3A-6A to 15 36.307	10.6.0
2012-12	RP-58	RP-121889	087			Introduction of CA band combination Band4 + Band13 to TS 36.307 (Rel-10)	10.6.0
2012-12	RP-58	RP-121894	089			Introduction of CA_B5_B12 in 36.307	10.6.0
2012-12	RP-58	RP-121896	090			Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307	10.6.0
2012-12	RP-58	RP-121887	094			Introduction of CA_4-12 into TS 36.307 (Rel-10)	10.6.0
2012-12	RP-58	RP-121882	096			[Rel-10] Introduction of inter-band CA_11-18 into TS36.307	10.6.0
2012-12	RP-58	RP-121861	098			configuration CA_4-7	10.6.0
2012-12	RP-30 RP-58	RP-121901 RP-121710	0103			Introduction of CA band combination Band2 + Band17 to TS	10.6.0
2012-12	RP-58	RP-121719	0105			36.307 (Rel-10)	10.6.0
2012-12	IXI -50	11 - 12 17 21	0105			36.307 (Rel-10)	10.0.0
2013-06	RP-60	RP-130771	106r1			Introduction of CA 1+8 into TS36.307(Rel-10)	10.7.0
2013-06	RP-60	RP-130782	109r1			Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-10	10.7.0
2013-06	RP-60	RP-130785	112			Introduction of LTE Advanced inter-band Carrier Aggregation of Band 23 and Band 29 to TS 36.307 (Rel-10)	10.7.0
2013-06	RP-60	RP-130779	115			Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 26 to TS 36.307 (Rel-10)	10.7.0
2013-06	RP-60	RP-130777	118			Introduction of CA_3A-19A to TS 36.307	10.7.0
2013-06	RP-60	RP-130783	121			Introduction of CA_19A-21A to TS 36.307	10.7.0
2013-06	KP-60	RP-130775	129		+	Introduction of CA_2A-13A to TS 36.307	10.7.0
2013-06	RP-60	RP-130790	13411		-	Introduction of LTE 450 into TS 36 307 P10	10.7.0
2013-06	RP-60	RP-130765	145			Corrections to release independent specifications	10.7.0
09-2013	RP-61	RP-131300	151			36.307 CR for LTE_CA C B3 (Rel-10)	10.8.0
09-2013	RP-61	RP-131303	154r1			Band 31 release independence for UE demodulation performance	10.8.0
09-2013	RP-61	RP-131285	156			[Rel-10] Modify requirements for CA_1A-18A in TS36.307	10.8.0

09-2013	RP-61	RP-131296	157	[Rel-10] Add requirements for CA 1A-26A into TS36.307	10.8.0
09-2013	RP-61	RP-131297	161	Introduction of CA 2A-4A into 36.307 REL-10	10.8.0
09-2013	RP-61	RP-131298	165	Introduction of inter-band CA Band 2+5	10.8.0
12-2013	RP-62	RP-131946	176	Introduction of CA band combination Band2 + Band12 to TS	10.9.0
				36.307	
12-2013	RP-62	RP-131954	179	Introduction of CA band combination Band12 + Band25 to TS	10.9.0
				36.307	
12-2013	RP-62	RP-131927	188r1	Correction to release independent specification	10.9.0
12-2013	RP-62	RP-131957	190	Introduction of CA_23B to TS 36.307	10.9.0
12-2013	RP-62	RP-131950	198	Introduction of CA band combination Band5 + Band25 to TS	10.9.0
				36.307	
12-2013	RP-62	RP-131948	202r1	Introduction of CA band combination B5 + B7 to TS 36.307	10.9.0
12-2013	RP-62	RP-131952	205	Introduction of CA band combination B7 + B28 to TS 36.307	10.9.0
12-2013	RP-62	RP-131925	214r1	UE performance requirements in release independent	10.9.0
				specification for CA	
12-2013	RP-62	RP-131924	222	Introducing 'General' clause with note referring to note in clause	10.9.0
				4.4 in TS36.101, editorial corrections and modifications to	
10.0010				Forward and Scope clauses	10.0.0
12-2013	RP-62	RP-131959	224	Introduction of LTE_CA_C_B27 to 36.307 (Rel-10)	10.9.0
03-2014	RP-63	RP-140386	225r1	Introduction of CA band combination Band 3 and Band 27 to TS	10.10.0
00.0044				36.307	40.40.0
03-2014	RP-63	RP-140368	230r1	CR on UE performance requirements in release independent	10.10.0
02.0014		DD 440000	0.40=4	specification	10.10.0
03-2014	RP-63	RP-140368	24311	Correction to release independent specification	10.10.0
03-2014	RP-63	RP-140371	233	Release independence of Band 14 HPUE	10.10.0
03-2014	RP-63	RP-140187	246	Addition of bandwidth combination set for CA_2A-29A and	10.10.0
02.2014	DD 62	DD 140207	105+1	Latroduction of CA 20A 41A to TS 26 207	10 10 0
03-2014	RP-63	RP-140387	1950	Introduction of CA_39A-41A to 15 36.307	10.10.0
03-2014	RP-63	RP-140388	20812	Introduction of CA_39C to 15 36.307	10.10.0
06-2014	RP-64	RP-140911	298	Correction of Common RRM requirements for CA in release	10.11.0
06.2014		DD 140011	057	Introduction of CA band combination Dand 1 and Dand 5 to TS	10 11 0
06-2014	RP-04	RP-140911	257		10.11.0
06.2014	DD 64	BD 140011	270	CP on LIE porformance requirements in release independent	10 11 0
00-2014	KF-04	KF-140911	270		10.11.0
06 2014	DD 64	BD 140026	270	Introduction of Band 20, 22 CA	10 11 0
06 2014	PD 64	PD 140920	263	Introduction of CA 1 11 to 26 207 (Pol 10)	10.11.0
06-2014	RP-64	RP-140931	344	Additional bandwidth combination set for LTE Advanced inter-	10.11.0
00-2014	KF-04	KF-140952	344	band Carrier Aggregation of Band 3 and Band 20 independent	10.11.0
				of LTF Release	
06-2014	RP-64	RP-140933	273	Introduction of CA band combination Band 4 and Band 27 to TS	10 11 0
00 2011			2.0	36.307	10.11.0
06-2014	RP-64	RP-140935	276	Addition of bandwidth combination sets for CA_3A-5A_CA_4A-	10 11 0
00-2014			2.0	5A. and CA 4A-12A into 36.307	10.11.0
06-2014	RP-64	RP-140942	338	Introduction of CA band combination Band 1 and Band 20 to TS	10.11.0
00 2014				36.307	
06-2014	RP-64				
00 2011	-	RP-140942	251	Introduction of CA band combination Band 1 and Band 20 to TS	10.11.0
06 2014		RP-140942	251	Introduction of CA band combination Band 1 and Band 20 to TS 36.307	10.11.0
100-2014	RP-64	RP-140942 RP-140943	251 345	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA 41D into TS 36.307	10.11.0 10.11.0
06-2014	RP-64	RP-140942 RP-140943	251 345	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10)	10.11.0 10.11.0
06-2014	RP-64 RP-64	RP-140942 RP-140943 RP-140946	251 345 343	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307	10.11.0 10.11.0 10.11.0
06-2014 06-2014 06-2014	RP-64 RP-64 RP-64	RP-140942 RP-140943 RP-140946 RP-140952	251 345 343 0304	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into	10.11.0 10.11.0 10.11.0 10.11.0
06-2014 06-2014 06-2014	RP-64 RP-64 RP-64	RP-140942 RP-140943 RP-140946 RP-140952	251 345 343 0304	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10)	10.11.0 10.11.0 10.11.0 10.11.0
06-2014 06-2014 06-2014	RP-64 RP-64 RP-64 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112	251 345 343 0304 0390r1	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0
06-2014 06-2014 06-2014 09-2014	RP-64 RP-64 RP-64 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-14112 RP-141198	251 345 343 0304 0390r1 0364r1	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of A_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10)	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-64 RP-65 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203	251 345 343 0304 0390r1 0364r1 0361r1	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3 into TS 36.307 (Rel-10)	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65 RP-65 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-141329	251 345 343 0304 0390r1 0364r1 0361r1 0427r1	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3 into TS 36.307 (Rel-10) Introduction of CA_1A-7A into 36.307 (Rel-10)	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65 RP-65 RP-65 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-141329 RP-141338	251 345 0304 0390r1 0364r1 0361r1 0427r1 0374r2	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3 into TS 36.307 (Rel-10) Introduction of CA_B1_B5 B7 into TS 36.307 (Rel-10) Introduction of CA_B1_B5 B7 into TS 36.307 (Rel-10)	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-141388 RP-141388 RP-141465	251 345 0304 0390r1 0364r1 0361r1 0427r1 0374r2 0430	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3 into TS 36.307 (Rel-10) Introduction of CA_B1_B3 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of SDL CA for Band 1+7+20	10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-141329 RP-141388 RP-141465 RP-141527	251 345 0304 0390r1 0364r1 0361r1 0427r1 0374r2 0430 413	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3 into TS 36.307 (Rel-10) Introduction of CA_B1_B3 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of S DL CA for Band 1+7+20 CR for 36.307 on CA UE performance requirement in Rel-10	10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-141329 RP-141338 RP-141527 RP-141541	251 345 343 0304 0390r1 0364r1 0361r1 0427r1 0427r1 0430 413 411	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of 3 DL CA for Band 1+7+20 CR for 36.307 on CA UE performance requirement in Rel-10 CR on UE performance requirement for Band 31 for 36.307 Rel-	10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-141329 RP-141338 RP-141527 RP-141541	251 345 343 0304 0390r1 0364r1 0361r1 0427r1 0427r1 0430 413 411	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of 3 DL CA for Band 1+7+20 CR for 36.307 on CA UE performance requirement in Rel-10 CR on UE performance requirement for Band 31 for 36.307 Rel-10	10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-141329 RP-141338 RP-141527 RP-141541 RP-141551	251 345 343 0304 0390r1 0364r1 0361r1 0427r1 0374r2 0430 413 411 358	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_Into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of 3 DL CA for Band 1+7+20 CR for 36.307 on CA UE performance requirement in Rel-10 CR on UE performance requirement for Band 31 for 36.307 Rel- 10 Introduction of CA 8+11 to 36.307 (Rel-10)	10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-141329 RP-14138 RP-141527 RP-141551 RP-141552	251 345 343 0304 0390r1 0364r1 0361r1 0427r1 0374r2 0430 413 411 358 377	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of 3 DL CA for Band 1+7+20 CR for 36.307 on CA UE performance requirement in Rel-10 CR on UE performance requirement for Band 31 for 36.307 Rel-10 10 Introduction of CA 8+11 to 36.307 (Rel-10) Introduction of CA 41A-42A to TS 36.307	10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-141329 RP-14138 RP-141527 RP-141551 RP-141552 RP-141551 RP-141554	251 345 343 0304 0390r1 0364r1 0361r1 0427r1 0374r2 0430 413 411 358 377 416r1	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) CR for 36.307 on CA UE performance requirement in Rel-10 CR on UE performance requirement for Band 31 for 36.307 Rel- 10 Introduction of CA_41A-42A to TS 36.307 Introduction of CA_41A-42A to TS 36.307	10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-141329 RP-14138 RP-141527 RP-141551 RP-141552 RP-141554	251 345 343 0304 0390r1 0364r1 0361r1 0427r1 0374r2 0430 413 411 358 377 416r1	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) CR for 36.307 on CA UE performance requirement in Rel-10 CR on UE performance requirement for Band 31 for 36.307 Rel- 10 Introduction of CA_41A-42A to TS 36.307 Introduction of CA_41A-42A to TS 36.307	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-141329 RP-141338 RP-141527 RP-141551 RP-141551 RP-141554 RP-141554	251 345 343 0304 0390r1 0364r1 0361r1 0427r1 0374r2 0430 413 411 358 377 416r1 419r1	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of CA_B1_B7_B7 (Rel-10) Introduction of CA_B1_B7_B7_B7 (Rel-10) Introduction of CA_B1_B7_B7_B7_B7_B7_B7_B7_B7_B7_B7_B7_B7_B7_	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141323 RP-141329 RP-141338 RP-141527 RP-141551 RP-141551 RP-141554	251 345 343 0304 0390r1 0364r1 0361r1 0427r1 0374r2 0430 413 411 358 377 416r1 419r1	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of 3 DL CA for Band 1+7+20 CR for 36.307 on CA UE performance requirement in Rel-10 CR on UE performance requirement for Band 31 for 36.307 Rel- 10 Introduction of CA_8+11 to 36.307 (Rel-10) Introduction of CA_41A-42A to TS 36.307 Introduction of requirements for 3DL inter-band carrier aggregation (FDD) and 2DL fallback Introduction of requirements for 3DL inter-band carrier aggregation including Band 30 and 2DL fallback	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-14138 RP-141527 RP-141551 RP-141552 RP-141554 RP-141555	251 345 343 0304 0390r1 0364r1 0361r1 0427r1 0374r2 0430 413 411 358 377 416r1 419r1 382r1	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of 3 DL CA for Band 1+7+20 CR for 36.307 on CA UE performance requirement in Rel-10 CR on UE performance requirement for Band 31 for 36.307 Rel- 10 Introduction of CA_8+11 to 36.307 (Rel-10) Introduction of CA_41A-42A to TS 36.307 Introduction of requirements for 3DL inter-band carrier aggregation (FDD) and 2DL fallback Introduction of requirements for 3DL inter-band carrier aggregation including Band 30 and 2DL fallback Introduction of 3 Band Carrier Aggregation of Band 1.Band 3	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65	RP-140942 RP-140943 RP-140943 RP-140952 RP-141112 RP-141198 RP-141203 RP-141329 RP-14138 RP-141527 RP-141551 RP-141552 RP-141554 RP-141555	251 345 343 0304 0390r1 0364r1 0361r1 0427r1 0374r2 0430 413 411 358 377 416r1 419r1 382r1	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of 3 DL CA for Band 1+7+20 CR for 36.307 on CA UE performance requirement in Rel-10 CR on UE performance requirement for Band 31 for 36.307 Rel-10 Introduction of CA_41A-42A to TS 36.307 Introduction of requirements for 3DL inter-band carrier aggregation (FDD) and 2DL fallback Introduction of requirements for 3DL inter-band carrier aggregation including Band 30 and 2DL fallback Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and Band 5 to TS 36.307(Rel.10)	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141198 RP-141303 RP-141329 RP-141329 RP-141527 RP-141551 RP-141551 RP-141554 RP-141554 RP-141555 RP-141555	251 345 343 0304 0390r1 0364r1 0361r1 0427r1 0374r2 0430 413 411 358 377 416r1 419r1 382r1 355r1	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into 36.307 (Rel-10) Introduction of 3 DL CA for Band 1+7+20 CR for 36.307 on CA UE performance requirement in Rel-10 CR on UE performance requirement for Band 31 for 36.307 Rel-10 Introduction of CA_41A-42A to TS 36.307 Introduction of CA_41A-42A to TS 36.307 Introduction of requirements for 3DL inter-band carrier aggregation (FDD) and 2DL fallback Introduction of requirements for 3DL inter-band carrier aggregation including Band 30 and 2DL fallback Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and Band 5 to TS 36.307(Rel.10)	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65	RP-140942 RP-140943 RP-140946 RP-140952 RP-141112 RP-141198 RP-141203 RP-141329 RP-141329 RP-141527 RP-141551 RP-141551 RP-141554 RP-141554 RP-141555 RP-141556	251 345 343 0304 0390r1 0364r1 0361r1 0427r1 0374r2 0430 413 411 358 377 416r1 419r1 382r1 355r1	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of 3 DL CA for Band 1+7+20 CR for 36.307 on CA UE performance requirement in Rel-10 CR on UE performance requirement for Band 31 for 36.307 Rel-10 Introduction of CA_41A-42A to TS 36.307 Introduction of CA_41A-42A to TS 36.307 Introduction of requirements for 3DL inter-band carrier aggregation (FDD) and 2DL fallback Introduction of requirements for 3DL inter-band carrier aggregation including Band 30 and 2DL fallback Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and Band 5 to TS 36.307(Rel.10) Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, Band 3 and Band 8 to TS 36.307	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0 10.12.0
06-2014 06-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014 09-2014	RP-64 RP-64 RP-65 RP-65	RP-140942 RP-140943 RP-140943 RP-140952 RP-141112 RP-1410952 RP-1410952 RP-1410952 RP-1410952 RP-1410952 RP-141198 RP-141338 RP-141329 RP-141351 RP-141551 RP-141552 RP-141554 RP-141555 RP-141556 RP-141558	251 345 343 0304 0390r1 0364r1 0364r1 0427r1 0427r1 0427r1 0430 413 411 358 377 416r1 419r1 382r1 355r1 400	Introduction of CA band combination Band 1 and Band 20 to TS 36.307 Introduction of CA band combination CA_41D into TS 36.307 (Rel-10) Introduction of CA_42C to TS 36.307 Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10) [Rel-10] Introduction of inter-band CA_18-28 into TS36.307 Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10) Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10) Introduction of CA_41A-42A to TS 36.307 (Rel-10) Introduction of CA_41A-42A to TS 36.307 Introduction of CA_41A-42A to TS 36.307 Introduction of CA_41A-42A to TS 36.307 Introduction of requirements for 3DL inter-band carrier aggregation including Band 30 and 2DL fallback Introduction of a Band Carrier Aggregation of Band 1,Band 3 and Band 5 to TS 36.307 Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, Band 3 and Band 8 to TS 36.307	10.11.0 10.11.0 10.11.0 10.11.0 10.12.0

09-2014	RP-65	RP-141560	350			Introduction of new CA_40C bandwidth combination set into 36.307	10.12.0
12-2014	RP-66	RP-142142	438			UE RF requirements in the release independent spec	10.13.0
12-2014	RP-66	RP-142166	441			Inclusion of 40D in 36.307	10.13.0
12-2014	RP-66	RP-142182	446			[Rel-10] Introduction of inter-band CA_1-28 into TS36.307	10.13.0
12-2014	RP-66	RP-142189	453			CR for TR 36.307: LTE_CA_B5_B13	10.13.0
12-2014	RP-66	RP-142190	456r2			Introduction of additional band combinations for 3DL inter-band CA	10.13.0
03-2015	RP-67	RP-150392	466			CR for 36.307 on CA UE performance requirement in Rel-10	10.14.0
07-2015	RP-68	RP-151024	473r3			Introduction of CA_42D to TS 36.307(Rel-10)	10.15.0
07-2015	RP-68	RP-150958	480			Removal of CA_2A-2A-13A, CA_4A-4A-13A from rel-10 36.307	10.15.0
07-2015	RP-68	RP-150968	496r2			Release independence CR for 2DL inter-band CA Rel-10	10.15.0
07-2015	RP-68	RP-150972	500r1			Release independence CR for 3DL inter-band CA Rel-10	10.15.0
09-2015	RP-69	RP-151501	0517			Introduction of the finished 4DL inter-band CAs fall back mode to TS 36.307	10.16.0
						This CR was not implemented as the cover page said it is for 36.101	
09-2015	RP-69	RP-151498	531r1			Rel-13 2DL combinations	10.16.0
09-2015	RP-69	RP-151499	535			Rel-13 3DL combinations	10.16.0
09-2015	RP-69	RP-151487	0542			Correction of TS 36.307 for release independent	10.16.0
12-2015	RP-70	RP-152157	0558r1			Introducing B20 + B67 CA into TS 36.307	10.17.0
12-2015	RP-70	RP-152168	0565			Introduction of intra-band CA_8B to TS 36.307	10.17.0
12-2015	RP-70	RP-152171	0577			Introduction of Band 65	10.17.0
12-2015	RP-70	RP-152162	0601			Introduction of the finished 4DL inter-band CAs fall back mode to TS 36.307	10.17.0
12-2015	RP-70	RP-152173	0609			Introduction of 1447-1467MHz Band into 36.307	10.17.0
12-2015	RP-70	RP-152161	0617			Rel-13 3DL combinations	10.17.0
12-2015	RP-70	RP-152172	0625			Introduction of Band 66	10.17.0
12-2015	RP-70	RP-152167	0635			Introduction of intra-band CA_5B to TS 36.307	10.17.0
03/2016	RP-71	RP-160480	0652		В	Rel-13 3DL combinations	10.18.0
03/2016	RP-71	RP-160482	0648		В	Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel- 10)	10.18.0
03/2016	RP-71	RP-160483	0644		В	Introduction of Band 68	10.18.0
06/2016	RP-72	RP-161139	0679	1	F	CR TS 36.307 REL-10	10.19.0
09/2016	RP-73	RP-161628	0696		A	Release 10 36.307 CAT A CR to make Band 41 power class 2 release independent The CR was not implemented because it was not based on the latest version of the Spec	10.20.0
09/2016	RP-73	RP-161632	0700		F	Correction of REL-10 TS 36.307 references	10.20.0
09/2016	RP-73	RP-161613	0704		В	CR for correction of 4Rx features for release independent in Rel- 10 in 36.307	10.20.0
12/2016	RP-74	RP-162406	0712	1	F	Addition of power class 2	10.21.0
06/2017	RP-76	RP-171294	0745	1	F	Cleanup of TS 36.307	10.22.0
2018-03	RAN#79	RP-180288	4366	1	В	Addition of missing features for TS 36.307 REL-10	10.23.0
2018-06	RAN#80	RP-181106	4376	1	В	TS 36.307 Rel-10	10.24.0
2018-06	RAN#80	RP-181097	4382		В	TS 36.307 big CR for introduction new band support for 4Rx antenna ports R10	10.24.0

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V10.5.0	November 2012	Publication			
V10.6.0	February 2013	Publication			
V10.7.0	July 2013	Publication			
V10.8.0	October 2013	Publication			
V10.9.0	January 2014	Publication			
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V10.11.0	July 2014	Publication			
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V10.13.0	February 2015	Publication			
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