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Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 12.16.0 Release 12)



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650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

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Foreword

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document specifies requirements for Rel-12 UEs supporting release independent features like:

- additional E-UTRA operating frequency bands on top of Rel-12 of TS 36.101 [2] and TS 36.133 [3];
- additional E-UTRA CA configurations (intra-band/inter-band) on top of Rel-12 of TS 36.101 [2] and TS 36.133 [3];
- additional operating bands and/or CA configurations for specific features (like UE category 0);
- 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:

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

3A Release independent features

3A.0 General

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

This means for each feature:

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

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

3A.1 Additional E-UTRA operating bands

Requirements for a Rel-12 UE for additional E-UTRA operating bands compared to TS 36.101 Rel-12 [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-12 UE for additional E-UTRA CA configurations compared to TS 36.101 Rel-12 [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	
		С	FDD, TDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1	
	UL	D	TDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1	
Intra-band contiguous CA configurations,		E	TDD	Rel-11	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1	
power class 3		F	TDD	Rel-12	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1	
		В	FDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1	
		C, D	FDD, TDD	Rel-10	Table B.2.2-1, Table B.3.2-1, Table B.4.2-1	
Intra-band contiguous CA configurations, 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

Feature	DL/UL	number of bands	number of CCs	CA BW Classes	Duplex- mode	Release independent from	requirements to be fulfilled (see 36.307 of the REL in which the CA configuration was introduced)	
				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, E	FDD, TDD	Rel-11	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1	
				A, B, C, D, E	FDD and TDD	Rel-12	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1	
				А	FDD, TDD	Rel-10	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1	
	DL	3	3		B, C, D	FDD, TDD	Rel-11	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1
Inter-band CA				А	FDD and TDD	Rel-12	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1	
configurations		4		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, Ο	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	
					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	
				A	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	
		JL 2	2-4	A, C	FDD, TDD	Rel-11	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1	
	UL		2	А	FDD and TDD	Rel-12	Table B.2.4-1, Table B.3.2-1, Table B.4.3- 1 or Table B.4.4-1	
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.								

Table 3A.2-2: Inter-band CA configurations

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For example, CA configuration CA_1A-19A was introduced in the Release 11 specifications. In order to implement a UE conforming to Release 10 but supporting the CA configuration CA_1A-19A, it is necessary for the UE to additionally conform to some parts of the Release 11 specifications (see corresponding 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.

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)	
later hand area	CA	2	A, C, D	FDD, TDD	Rel-11	Table B.2.3-1, Table B.3.2-1, Table B.4.5-1	
Intra-band non- contiguous CA		3	A, C	FDD, TDD	Rel-11	Table B.2.3-1, Table B.3.2-1, Table B.4.5-1	
configurations	UL	2	А	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.							

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

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

For a specific feature introduced in an earlier release, it may be decided in a later release to apply this specific feature in a release independent way for additional operating bands and/or CA configurations. For a Rel-12 UE corresponding requirements are then introduced via this clause.

Table 3A.3-1:	Operating	bands for	specific fea	atures
---------------	-----------	-----------	--------------	--------

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

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-12 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

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

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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 multiband environment, in which multiple overlapping operating bands may be indicated in the fields *freqBandIndicator* and *multiBandInfoList* of SIB1.

The overlapping bands, independent of release, which may be indicated in a cell are shown in Table A-1 for applicable E-UTRA bands. The DL EARFCN and UL EARFCN are derived according to TS 36.101 Rel-12 [2].

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

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-12 [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
 for supporting th Tests). NOTE 2: All requirements an for supporting th Redirection), 6.4 NOTE 3: All requirements an 7.5. NOTE 4: All requirements an for supporting th Frequency RST 8.1.2.7 (E-UTR/ NOTE 5: All requirements an 	d the corresponding test cases shall apply, except: e corresponding band in Rel-9 and below: clause 4.3 (Minimization of Drive d the corresponding test cases shall apply, except: e corresponding band in Rel-8: clauses 6.3 (RRC Connection Release with (CSG Proximity Indication for E-UTRAN and UTRAN). d corresponding test cases shall apply, except those defined in sections 7.4 and d corresponding test cases shall apply, except: ne corresponding band in Rel-8: clauses 8.1.2.5 (E-UTRAN OTDOA Intra- D Measurements), 8.1.2.6 (E-UTRAN Inter-Frequency OTDOA Measurements), AN E-CID Measurements). d corresponding test cases shall apply, except:
9.1.10 (Referen - for supporting th requirement und lo≤-70dBm is ±0 - for supporting th accuracy requir NOTE 6: In addition to the ex those defined for: - carrier aggregat - for supporting th measurement re - for supporting th measurement re	The corresponding band in Rel-11 or below: the interfrequency RSRP relative ement under normal conditions in table 9.1.3.2-1 is \pm 6dB. Acceptions above, all requirements and test cases in this table shall apply, except

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

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

The requirements and test cases listed in Table B.2.2-1 are specified in TS 36.133 Rel-12 [3].

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

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

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

The requirements and test cases listed in Table B.2.3-1 are specified in TS 36.133 Rel-12 [3].

Table B.2.3-1: Common RRM requirements	or 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 	
	ement 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-12 [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 ex	and test cases defined for inter-band with single uplink carrier aggregation shall cceptions above, all requirements and test cases in this table shall apply, except:	
NOTE 3: - For supporting requirement under 70dBm is ±6dB. - for supporting the	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≤-	

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-12 [3].

Section / Clause	Description	
7.1	UE transmit timing	
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation	
7.8	Interruptions with Carrier Aggregation	
7.17	Maximum Transmission Timing Difference in Dual Connectivity	
8.2	Capabilities for Support of Event Triggering and Reporting Criteria	
8.3	Measurements for E-UTRA carrier aggregation	
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation	
9.1.11 Note 3	Carrier aggregation measurement accuracy	
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation	
A.7	Timing and Signalling Characteristics	
A.8	UE Measurements Procedures	
A.9 Note 3	Measurement Performance Requirements	
NOTE 1: Only requirements apply.	and test cases defined for inter-band with dual uplink carrier aggregation shall	
 for supporting t 	- for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12.	
	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≤-	
	 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. 	

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

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

The requirements and test cases listed in Table B.2.6-1 are specified in TS 36.133 Rel-12 [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
7.17	Maximum Transmission Timing Difference in Dual Connectivity
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 a dual uplinks shall a	and test cases defined for intra-band non-contiguous carrier aggregation with oply.
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.2.7 Void
- B.2.8 Void
- B.2.9 Void

B.3 Common UE performance requirements

B.3.1 Void

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

The requirements and test cases listed in Table B.3.2-1 are specified in TS 36.101 Rel-12 [2].

Table B.3.2-1: Common UE performance requirements and tests for release independent 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)
8.2.1.3.1	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)
8.2.1.3.1A	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)
8.2.1.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (FDD)
8.2.1.4.3A	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (DC)
8.2.2.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (TDD)
8.2.2.4.4	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (DC)
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)
Section 8.1.2.3 and	requirements for different CA configurations and bandwidth combination sets is specified in

- B.3.3 Void
- B.3.4 Void
- B.3.5 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-12 [2].

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

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

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

The requirements and test cases listed in Table B.4.2-1 are specified in TS 36.101 Rel-12 [2].

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
1	

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

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

The requirements and test cases listed in Table B.4.3-1 are specified in TS 36.101 Rel-12 [2].

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

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

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

The requirements and test cases listed in Table B.4.4-1 are specified in TS 36.101 Rel-12 [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-12 [2].

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

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

B.4.6 Common UE RF requirements for a 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-12 [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 a 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-12 [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 Void
- B.4.9 Void
- B.4.10 Void

Annex C (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					Approved by RAN	9.0.0
09-2010	RP-49	RP- 100927	2			CR LTE_TDD_2600_US spectrum band definition additions to TS 36.307 V900	9.1.0
						Correction of section numbering	9.1.1
12-2010	RP-50	RP- 101356	008			Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.2.0
12-2010	RP-50	RP- 101361	005			Introduction of L-band in TS 36.307	9.2.0
12-2010	RP-50	RP- 101344	016			CR creating the rel-10 of the 36.307 specification	9.3.0
12-2010	RP-50	RP- 101356	012			Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.3.0
12-2010	RP-50					Raised to Rel-10 with no technical change	10.0.0
01-2011						Correction to history table	10.0.1
06-2011		RP- 110804	015			Add Expanded 1900 MHz Band (Band 25) in 36.307	10.1.0
06-2011	RP-52	RP- 110812	022			Add 2GHz S-Band (Band 23) in 36.307 (Rel 10)	10.1.0
09-2011	RP-53	RP- 111255	025			Add Band 22 for LTE/UMTS 3500 (FDD) to TS 36.307	10.2.0
03-2012	RP-55	RP- 120305	029			Introduction of Band 26/XXVI to TS 36.307	11.0.0
2012-06	RP-56	RP- 120789	043			Introduction of CA_1A-19A to TS 36.307	11.1.0
2012-06		RP- 120793	049			Introduction of APAC700(FDD) into TS 36.307 Rel-11	11.1.0
2012-06		RP- 120793	053			Introduction of APAC700(TDD) into TS 36.307 Rel-11	11.1.0
2012-06		RP- 120791	057			Introduction of e850_LB (Band 27) to TS 36.307	11.1.0
2012-09		RP- 121335	059			Introduction of CA_1A-21A to TS 36.307	11.2.0
2012-09	RP-57		070r1			Relation between EARFCN for overlapping bands with multiple FBI indication	11.2.0
2012-09	RP-57	RP- 121338	072			36.307 CR for LTE_CA_B7	11.2.0
2012-09	RP-57	RP- 121337	073			TS 36.307 CR for CA_38	11.2.0
2012-09	RP-57	RP- 121327	074			Introduction of CA_B7_B20 in 36.307	11.2.0
2012-09	RP-57	RP- 121329	075	1		Introduction of CA band combination Band3 + Band5 to TS 36.307	11.2.0
2012-09	RP-57	RP- 121331	076			Introduction of CA_3A-20A to TS 36.307	11.2.0
2012-09	RP-57	RP- 121334	077			Add requirements for inter-band CA of B_1-18 in TS36.307	11.2.0
2012-09	RP-57	RP- 121333	078			Introduction of CA_8_20 RF requirements into TS36.307	11.2.0
2012-09	RP-57	RP-	079			Introduction of CA_B3_B7 in 36.307	11.2.0
2012-12	RP-58	121324 RP-	086			Introduction of CA_4A-5A into 36.307	11.3.0
2012-12	RP-58	121890 RP-	088			Introduction of CA band combination Band4 + Band13 to	11.3.0
2012-12	RP-58	121889 RP-	091			TS 36.307 (Rel-11) Introduction of Band 5 + Band 17 inter-band CA	11.3.0
0040.40	RP-58	121896 RP-	092			configuration into 36.307 Introduction of CA_3A-8A to TS 36.307	11.3.0

0040 40					44.0.0
2012-12	RP-58	RP- 121894	093	Introduction of CA_B5_B12 in 36.307	11.3.0
2012-12	RP-58	RP- 121887	095	Introduction of CA_4-12 into TS 36.307 (Rel-11)	11.3.0
2012-12	RP-58	RP- 121882	097	[Rel-11] Introduction of inter-band CA_11-18 into TS36.307	11.3.0
2012-12	RP-58	RP- 121861	099	Release-independent implementation of carrier aggregation configuration CA_4-7	11.3.0
2012-12	RP-58	RP- 121901	101	Introduction of Band 29	11.3.0
2012-12	RP-58	RP- 121718	0102	Introduction of CA band combination Band2 + Band17 to TS 36.307 (Rel-11)	11.3.0
2012-12	RP-58	RP- 121720	0104	Introduction of CA band combination Band4 + Band17 to TS 36.307 (Rel-11)	11.3.0
2013-06		RP- 130771	108	Introduction of CA 1+8 into TS36.307(Rel-12)	12.0.0
2013-06		RP- 130782	111	Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-12	12.0.0
2013-06		RP- 130785	114	Introduction of LTE Advanced inter-band Carrier Aggregation of Band 23 and Band 29 to TS 36.307 (Rel-12)	12.0.0
2013-06	RP-60	RP- 130779	117	Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 26 to TS 36.307 (Rel-12)	12.0.0
2013-06	RP-60	RP- 130777	120	Introduction of CA_3A-19A to TS 36.307	12.0.0
2013-06	RP-60	RP- 130783	123	Introduction of CA_19A-21A to TS 36.307	12.0.0
2013-06	RP-60	RP- 130775	131	Introduction of CA_2A-13A to TS 36.307	12.0.0
2013-06	RP-60	RP- 130791	136	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- 130787	150	Introduction of CA_4A-4A into 36.307 Rel-12	12.0.0
09-2013		RP- 131300	153	36.307 CR for LTE_CA_C_B3 (Rel-12)	12.1.0
09-2013		RP- 131296	160	[Rel-12] Add requirements for CA_1A-26A into TS36.307	12.1.0
09-2013		RP- 131297	163	Introduction of CA_2A-4A to TS 36.307	12.1.0
09-2013		RP- 131298	167	Introduction of inter-band CA Band 2+5	12.1.0
12-2013		RP- 131965	173	Introduction of CA_23A-23A to TS 36.307	12.2.0
12-2013		RP- 131946	178	Introduction of CA band combination Band2 + Band12 to TS 36.307	12.2.0
12-2013		RP- 131954	181	Introduction of CA band combination Band12 + Band25 to TS 36.307	12.2.0
12-2013		RP- 131959	184	Introduction of LTE_CA_C_B27 to 36.307 (Rel-12)	12.2.0
12-2013		RP- 131957	192	Introduction of CA_23B to TS 36.307	12.2.0
12-2013		RP- 131961	194	Introduction of Intra-band non-contiguous CA in band 3 to TS 36.307	12.2.0
12-2013		RP- 131950	200	Introduction of CA band combination Band5 + Band25 to TS 36.307	12.2.0
12-2013	RP-62	RP- 131967	201r1	Introducing 'General' clause with note referring to note in clause 4.4 in TS36.101, editorial corrections and modifications to Forward and Scope clauses	12.2.0
12-2013	RP-62	RP- 131948	204	Introduction of CA band combination B5 + B7 to TS 36.307 R12	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- 131967	211	Correction to release independent specification	12.2.0
12-2013	RP-62	RP- 131925	216	UE performance requirements in release independent specification for CA	12.2.0

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- 140371	235	Release independence of Band 14 HPUE	12.3.0
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- 140389	245r1	Correction to release independent specification	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- 140387	197r1	Introduction of CA_39A-41A 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-140918	300	Correction of Common RRM requirements for CA in release independent specification (Rel-12)	12.4.0
06-2014		RP-140926	280r1	Introduction of Band 20+32 CA	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-140938	291	Introduction of CA_2A-2A to TS 36.307 Rel-12	12.4.0
06-2014		RP-140940		Introduction of LTE_CA_NC_B42 into 36.307	12.4.0
06-2014		RP-140942		Introduction of CA band combination Band 3 and Band 27 to TS 36.307	12.4.0
06-2014		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-141110	0388r1	[Rel-12] Introduction of inter-band CA_18-28 into TS36.307	12.5.0
09-2014	RP-65	RP-141200		Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12)	12.5.0
09-2014	RP-65	RP-141205		Introduction of CA_B1_B3 into TS 36.307 (Rel-12)	12.5.0
09-2014	RP-65	RP-141332	0429r1	Introduction of CA_1A-7A into 36.307 (Rel -12)	12.5.0
09-2014	RP-65	RP-141340	0376r1	Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-12)	12.5.0
09-2014	RP-65	RP-141467		Introduction of 3 DL CA for Band 1+7+20	12.5.0
09-2014	RP-65	RP-141527		CR for 36.307 on CA UE performance requirement in Rel-12	12.5.0
09-2014	RP-65	RP-141551		Introduction of CA 8+11 to 36.307 (Rel-12)	12.5.0
09-2014	RP-65	RP-141552		Introduction of CA_41A-42A to TS 36.307	12.5.0
09-2014	RP-65	RP-141553		Introduction of a new bandwidth combination set for CA_25A-25A into 36.307	12.5.0
09-2014	RP-65	RP-141554		Introduction of requirements for 2DL inter-band carrier aggregation (FDD) and 2DL fallback	12.5.0
09-2014	RP-65	RP-141554		Introduction of requirements for 3DL inter-band carrier aggregation including Band 30	12.5.0
09-2014	RP-65	RP-141555		Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and Band 5 to TS 36.307(Rel.12)	12.5.0
09-2014	RP-65	RP-141556		Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, Band 3 and Band 8 to TS 36.307	12.5.0
09-2014	RP-65	RP-141558	402	Introduction of CA band combination Band 1, Band 3 and Band 20 to TS 36.307	12.5.0
09-2014	RP-65	RP-141560	352	Introduction of new CA_40C bandwidth combination set into 36.307	12.5.0
09-2014	RP-65	RP-141561	354	CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A- 41C	12.5.0
12-2014	RP-66	RP-142142		UE RF requirements in the release independent spec	12.6.0
12-2014	RP-66	RP-142188		Revision of common RRM requirements for release independent specification	12.6.0
12-2014	RP-66	RP-142182		[Rel-12] Introduction of inter-band CA_1-28 into TS36.307	12.6.0
12-2014	RP-66	RP-142189		CR for TR 36.307: LTE_CA_B5_B13	12.6.0
12-2014	RP-66	RP-142190		Introduction of additional band combinations for 3DL inter-band CA	12.6.0
	RP-67	RP-150387		R4-73AH-0113: Correction of UE RF requirements for dual uplik to TS 36.307 Rel-12	12.7.0
03-2015	DD 07	DD 450005		CR for 36.307 on CA UE performance requirement in Rel-12	12.7.0
03-2015	RP-67	RP-150392			4070
03-2015 03-2015	RP-67	RP-150387	469	Further revision of RSRP requirement for 36.307 release 12	12.7.0
03-2015 03-2015 06-2015	RP-67 RP-68	RP-150387 RP-151026	469 0471r3	Further revision of RSRP requirement for 36.307 release 12 Introduction of CA_42D to TS 36.307(Rel-12)	12.8.0
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