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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 13.2.0 Release 13)



# Reference RTS/TSGR-0436307vd20 Keywords LTE

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#### Contents

Intel	ntellectual Property Rights2				
Fore	reword	2			
Mod	odal verbs terminology	2			
Fore	reword	10			
1	Scope	11			
2	References	11			
3 3.1 3.2	Definitions and Abbreviations  Definitions Abbreviations	11			
3A	General	11			
4	Void	12			
5	Void	12			
6	Void	12			
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211	Void	30
212	Void	31
213 t	o 271 Void	31
Anne	ex A (informative): Frequency arrangement for overlapping operating bands	32
Anne	ex B (normative): Common Requirements	33
B.1	Purpose of annex	33
B.2	Common RRM requirements	
B.2.1 B.2.2	Common RRM requirements for a band independent of release	
B.2.2 B.2.3		
B.2.4	Common RRM requirements for an inter-band CA with single uplink configuration	36
B.2.5	Common RRM requirements for an inter-band CA with dual uplink configuration	36

B.2.6	Common RRM requirements for an intra-band non-contiguous CA with dual uplink configuration	36
B.2.7	Common RRM requirements for an inter-band CA with three uplink configuration	37
B.3	Common UE performance requirements	38
B.3.1	Void	38
B.3.2	Common UE performance requirements and tests for different CA configurations and combination sets	38
B.3.3	Void	39
B.3.4	Void	39
B.4	Common UE RF requirements	39
B.4.1	Common UE RF requirements for a band independent of release	
B.4.2	Common UE RF requirements for an intra-band contiguous CA configuration	
B.4.3	Common UE RF requirements for an single uplink inter-band CA configuration	40
B.4.4	Common UE RF requirements for an inter-band CA configuration including an operating band without	
	uplink band	
B.4.5	Common UE RF requirements for a single uplink intra-band non-contiguous CA configuration	41
B.4.6	Common UE RF requirements for Dual uplink inter-band CA configuration	42
B.4.7	Common UE RF requirements for Dual uplink intra-band non-contiguous CA configuration	42
B.4.8	Common UE RF requirements for three uplink inter-band CA configuration	43
Anne	x C (informative): Change history	44
Histor	ry	48

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#### 1 Scope

The present document specifies requirements on UEs supporting a frequency band and inter-band/intra-band CA configurations that are independent of release.

#### 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.
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- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 36.101 (Release 13): "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Radio Transmission and Reception".
- [3] 3GPP TS 36.133 (Release 13): "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for Support of Radio Resource Management".

#### 3 Definitions and Abbreviations

#### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in [1] apply.

#### 3.2 Abbreviations

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

#### 3A General

TSG-RAN has agreed that the standardisation of new frequency bands may be independent of a release, and that the standardisations of new inter-band/intra-band CA configurations also may be independent of a release for Rel-10 upwards. However, in order to implement a UE that conforms to a particular release but supports a band of operation or carrier aggregation of particular inter-band/intra-band CA configurations that is specified in a later release, it is necessary to specify some extra requirements.

For example, Band 19 is contained in the Release 9 specifications. In order to implement a UE conforming to Release 8 but supporting Band 19, it is necessary for the UE to additionally conform to some parts of the Release 9 specifications, such as the radio frequency and radio resource management requirements for the Band 19.

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

All frequency bands are fully specified in this release of the specifications. The present document does not contain any requirements for UEs supporting frequency bands independent of release.

NOTE: See NOTE in clause 4.4 in [2].

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

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

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

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

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

# Annex B (normative): Common Requirements

#### 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 band independent of release

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

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

Section / Clause	Description
4 Note 1	E-UTRAN RRC_IDLE state mobility
5	E-UTRAN RRC_CONNECTED state mobility
6 Note 2	RRC Connection Mobility Control
7 Note 3	Timing and signalling characteristics
8 Note 4	UE Measurements Procedures in RRC_CONNECTED State
9 Note 5	Measurements performance requirements for UE
A.4 Note 1	E-UTRAN RRC_IDLE state
A.5	E-UTRAN RRC CONNECTED Mode Mobility
A.6 Note 2	RRC Connection Control
A.7 Note 3	Timing and Signalling Characteristics
A.8 Note 4	UE Measurements Procedures
A.9 Note 5	Measurement Performance Requirements

- NOTE 1: All requirements and the corresponding test cases shall apply, except:
  - for supporting the corresponding band in Rel-9 and below: clause 4.3 (Minimization of Drive Tests).
- NOTE 2: All requirements and the corresponding test cases shall apply, except:
  - for supporting the corresponding band in Rel-8: clauses 6.3 (RRC Connection Release with Redirection), 6.4 (CSG Proximity Indication for E-UTRAN and UTRAN).
- NOTE 3: All requirements and corresponding test cases shall apply, except those defined in sections 7.4 and 7.5.
- NOTE 4: All requirements and corresponding test cases shall apply, except:
  - for supporting the corresponding band in Rel-8: clauses 8.1.2.5 (E-UTRAN OTDOA Intra-Frequency RSTD Measurements), 8.1.2.6 (E-UTRAN Inter-Frequency OTDOA Measurements), 8.1.2.7 (E-UTRAN E-CID Measurements).
- NOTE 5: All requirements and corresponding test cases shall apply, except:
  - for supporting the corresponding band in Rel-8: clauses 9.1.9 (UE Rx–Tx time difference), 9.1.10 (Reference Signal Time Difference).
  - for supporting the corresponding band in Rel-11 or below: the RSRP absolute accuracy requirement under normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when lo≤-70dBm is ±6dB.
  - for supporting the corresponding band in Rel-11 or below: the interfrequency RSRP relative accuracy requirement under normal conditions in table 9.1.3.2-1 is ±6dB.
- NOTE 6: In addition to the exceptions above, all requirements and test cases in this table shall apply, except those defined for:
  - carrier aggregation;
  - for supporting the corresponding band in Rel-9 or below: measurements under time-domain measurement resource restriction without CRS assistance information;
  - for supporting the corresponding band in Rel-10 or below: measurements under time-domain measurement resource restriction with CRS assistance information;
  - for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12.

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

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

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

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

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

Table B.2.3-1: Common RRM requirements for a single-band CA configuration independent of release

Section / Clause	Description
7.1	UE transmit timing
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation
7.8	Interruptions with Carrier Aggregation
8.2	Capabilities for Support of Event Triggering and Reporting Criteria
8.3	Measurements for E-UTRA carrier aggregation
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation
9.1.11 Note 3	Carrier aggregation measurement accuracy
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation
A.7	Timing and Signalling Characteristics
A.8	UE Measurements Procedures
A.9 Note 3	Measurement Performance Requirements

- NOTE 1: Only requirements and test cases defined for intra-band non-contiguous carrier aggregation with single uplink shall apply.
- NOTE 2: In addition to the exceptions above, all requirements and test cases in this table shall apply, except:
   for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12.
- NOTE 3: For supporting the corresponding band in Rel-11 or below: the RSRP absolute accuracy requirement under normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when lo≤-70dBm is ±6dB
  - for supporting the corresponding band in Rel-11 or below: the interfrequency RSRP relative accuracy requirement under normal conditions in table 9.1.3.2-1 is ±6dB.

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

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

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

and Deactivation Delay for E-UTRA Carrier Aggregation Carrier Aggregation upport of Event Triggering and Reporting Criteria
Carrier Aggregation upport of Event Triggering and Reporting Criteria
upport of Event Triggering and Reporting Criteria
r E-UTRA carrier aggregation
easurements for E-UTRAN carrier aggregation
on measurement accuracy
Time Difference (RSTD) Measurement Accuracy Carrier Aggregation
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rformance Requirements
ned for inter-band with single uplink carrier aggregation shall

- 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.

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

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

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

Section / Clause	Description
TBD	TBD
NOTE 1: Only requirements a apply.	and test cases defined for inter-band with dual uplink carrier aggregation shall

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

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

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

Section / Clause	Description
TBD	TBD
NOTE 1: Only requirements a dual uplinks shall a	and test cases defined for intra-band non-contiguous carrier aggregation with oply.

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

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

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

Section / Clause	Description
TBD	TBD
NOTE 1: Only requirements apply.	and test cases defined for inter-band with dual uplink carrier aggregation shall

#### Common UE performance requirements **B.3**

#### B.3.1 Void

Table B.3.1-1: Void

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

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

Section / Clause	Description
8.2.1.1.1	Single-antenna port performance (FDD)
8.2.2.1.1	Single-antenna port performance (TDD)
8.2.3.1.1	Single-antenna port performance (TDD-FDD CA)
8.2.1.3.1	Open-loop spatial multiplexing performance - Minimum Requirement 2 Tx Antenna Port (FDD)
8.2.2.3.1	Open-loop spatial multiplexing performance - Minimum Requirement 2 Tx Antenna Port (TDD)
8.2.3.3.1	Open-loop spatial multiplexing performance - Minimum Requirement 2 Tx Antenna Port (TDD-FDD CA)
8.2.1.3.1A	Open-loop spatial multiplexing performance - Soft buffer management test (FDD)
8.2.2.3.1A	Open-loop spatial multiplexing performance - Soft buffer management test (TDD)
8.2.3.3.1A	Open-loop spatial multiplexing performance - Soft buffer management test (TDD-FDD CA)
8.2.1.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (FDD)
8.2.2.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (TDD)
8.2.3.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (TDD-FDD CA)
8.2.1.7	Carrier aggregation with power imbalance (FDD)
8.2.1.8	Intra-band non-contiguous carrier aggregation with timing offset (FDD)
8.2.2.7	Carrier aggregation with power imbalance (TDD)
8.7.1	Sustained downlink data rate provided by lower layers (FDD)
8.7.2	Sustained downlink data rate provided by lower layers (TDD)
8.7.5	Sustained downlink data rate provided by lower layers (TDD-FDD CA)
9.6.1.1	Additional requirements for carrier aggregation - Periodic reporting on multiple cells (Cell Specific Reference symbols) (FDD)
9.6.1.2	Additional requirements for carrier aggregation - Periodic reporting on multiple cells (Cell Specific Reference symbols) (TDD)
9.6.1.3	Additional requirements for carrier aggregation - Periodic reporting on multiple cells (Cell Specific Reference symbols) (TDD-FDD CA)
NOTE 1: The applicability of Section 8.1.2.3 and	requirements for different CA configurations and bandwidth combination sets is specified in d 9.1.1.2 in [2].

Section 8.1.2.3 and 9.1.1.2 in [2].

NOTE 2: The test coverage for different number of component carriers is defined in 8.1.2.4 in [2].

#### B.3.3 Void

Table B.3.3-1: Void

#### B.3.4 Void

### B.4 Common UE RF requirements

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

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

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

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

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

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

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

Section / Clause	Description
5.5A	Operating bands for CA
5.6A	Channel bandwidths per operating band for CA
5.7.1A	Channel spacing for CA
5.7.2A	Channel raster for CA
5.7.4A	TX–RX frequency separation for CA
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
6.2.4A	UE maximum output power with additional requirements for CA
6.2.5A	Configured transmitted power for CA
6.3.2A	UE Minimum utput power for CA
6.3.3A	UE Trasnsmit OFF power for CA
6.3.4A	ON/OFF time mask for CA
6.3.5A	Power control for CA
6.5.1A	Frequency error for CA
6.5.2A	Transmit modulation quality for CA
6.6.1A	Occupied bandwidth for CA
6.6.2.1A	Spectrum emission mask for CA
6.6.2.2A	Additional Spectrum Emission mask for CA
6.6.2.3.2A	UTRA ACLR for CA
6.6.2.3.3A	E-UTRA ACLR for CA
6.6.3.1A	Minimum requirements for CA
6.6.3.2A	Spurious emission band UE co-existence for CA
6.6.3.3A	Additional spurious emissions for CA
6.7.1A	Minimum requirement for CA
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA
7.10.1A	Receiver response for CA

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

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

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

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

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

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

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

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 [2].

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# Annex C (informative): Change history

**Table C.1: Change History** 

Date	TSG#	TSG Doc.	CR	Subject	Old	New
11-2009	RP#46	RP-091141		TS36.307 V0.1.0 approved by RAN (Originally in R4-095022)	-	0.1.0
02-2010	R4#54	R4-100419		For release 9 version, replace sections 4 to 6 as "Void" and add a new void section as section 7.	0.1.0	0.2.0
03-2010	RP#47	RP-100162		TS36.307 v1.0.0 for approval	0.2.0	1.0.0
03-2010		RP-100162		Approved by RAN	1.0.0	9.0.0
09-2010	RP-49	RP-100927	2	CR LTE_TDD_2600_US spectrum band definition additions to TS 36.307 V900	9.0.0	9.1.0
				Correction of section numbering	9.1.0	9.1.1
12-2010	RP-50	RP-101356	800	Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.1.1	9.2.0
12-2010	RP-50		005	Introduction of L-band in TS 36.307	9.1.1	9.2.0
12-2010	RP-50	RP-101344	016	CR creating the rel-10 of the 36.307 specification		9.3.0
12-2010	RP-50	RP-101356	012	Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.2.0	9.3.0
12-2010	RP-50			Raised to Rel-10 with no technical change	9.3.0	10.0.0
01-2011				Correction to history table	10.0. 0	10.0.1
06-2011	RP-52	RP-110804	015	Add Expanded 1900 MHz Band (Band 25) in 36.307	10.0.	10.1.0
06-2011	RP-52	RP-110812	022	Add 2GHz S-Band (Band 23) in 36.307 (Rel 10)	10.0.	10.1.0
09-2011	RP-53	RP-111255	025	Add Band 22 for LTE/UMTS 3500 (FDD) to TS 36.307	10.1. 0	10.2.0
03-2012	RP-55	RP-120305	029	Introduction of Band 26/XXVI to TS 36.307	10.2.	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-56	RP-120793		Introduction of APAC700(FDD) into TS 36.307 Rel-11	11.0. 0	11.1.0
2012-06	RP-56	RP-120793	053	Introduction of APAC700(TDD) into TS 36.307 Rel-11	11.0. 0	11.1.0
2012-06	RP-56	RP-120791	057	Introduction of e850_LB (Band 27) to TS 36.307	11.0. 0	11.1.0
2012-09	RP-57	RP-121335	059	Introduction of CA_1A-21A to TS 36.307	11.1. 0	11.2.0
2012-09	RP-57	RP-121295	070r1	Relation between EARFCN for overlapping bands with multiple FBI indication	11.1. 0	11.2.0
2012-09	RP-57	RP-121338	072	36.307 CR for LTE_CA_B7	11.1. 0	11.2.0
2012-09	RP-57	RP-121337	073	TS 36.307 CR for CA_38	11.1. 0	11.2.0
2012-09	RP-57	RP-121327	074	Introduction of CA_B7_B20 in 36.307	11.1. 0	11.2.0
2012-09	RP-57	RP-121329	075	Introduction of CA band combination Band3 + Band5 to TS 36.307	11.1. 0	11.2.0
2012-09	RP-57	RP-121331	076	Introduction of CA_3A-20A to TS 36.307	11.1. 0	11.2.0
2012-09	RP-57	RP-121334	077	Add requirements for inter-band CA of B_1-18 in TS36.307	11.1. 0	11.2.0
2012-09	RP-57	RP-121333	078	Introduction of CA_8_20 RF requirements into TS36.307	11.1. 0	11.2.0
2012-09	RP-57	RP-121324	079	Introduction of CA_B3_B7 in 36.307	11.1. 0	11.2.0
2012-12	RP-58	RP-121890	086	Introduction of CA_4A-5A into 36.307	11.2. 0	11.3.0
2012-12	RP-58	RP-121889	088	Introduction of CA band combination Band4 + Band13 to TS 36.307 (Rel-11)	11.2. 0	11.3.0

2012-12 F	RP-58 RP-58 RP-58 RP-58	RP-121894 RP-121887 RP-121882 RP-121861	092 093 095 097	Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307 Introduction of CA_3A-8A to TS 36.307 Introduction of CA_B5_B12 in 36.307 Introduction of CA_4-12 into TS 36.307 (Rel-11)	11.2. 0 11.2. 0 11.2. 0 11.2.	11.3.0 11.3.0 11.3.0
2012-12 F 2012-12 F 2012-12 F 2012-12 F 2012-12 F 2012-12 F	RP-58 RP-58 RP-58 RP-58	RP-121894 RP-121887 RP-121882 RP-121861	093 095 097	Introduction of CA_3A-8A to TS 36.307  Introduction of CA_B5_B12 in 36.307  Introduction of CA_4-12 into TS 36.307 (Rel-11)	0 11.2. 0	11.3.0
2012-12 F 2012-12 F 2012-12 F 2012-12 F 2012-12 F	RP-58 RP-58 RP-58	RP-121887 RP-121882 RP-121861	095 097	Introduction of CA_4-12 into TS 36.307 (Rel-11)	11.2. 0	
2012-12 F 2012-12 F 2012-12 F 2012-12 F	RP-58 RP-58 RP-58	RP-121882 RP-121861	097	, ,	_	1130
2012-12 F 2012-12 F 2012-12 F 2012-12 F	RP-58 RP-58	RP-121861		IDel 441 Introduction of inter-band CA 44 40 into TCCC 207	0	
2012-12 F 2012-12 F 2012-12 F	RP-58		000	[Rel-11] Introduction of inter-band CA_11-18 into TS36.307	11.2. 0	11.3.0
2012-12 F		RP-121901	099	Release-independent implementation of carrier aggregation configuration CA_4-7	11.2. 0	11.3.0
2012-12 F	RP-58		101	Introduction of Band 29	11.2. 0	11.3.0
		RP-121718	0102	Introduction of CA band combination Band2 + Band17 to TS 36.307 (Rel-11)	11.2. 0	11.3.0
2013-06 5	RP-58	RP-121720	0104	Introduction of CA band combination Band4 + Band17 to TS 36.307 (Rel-11)	11.2. 0	11.3.0
2013-00	RP-60	RP-130771	108	Introduction of CA 1+8 into TS36.307(Rel-12)	11.3. 0	12.0.0
2013-06 F	RP-60	RP-130782	111	Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-12	11.3. 0	12.0.0
2013-06 F	RP-60	RP-130785	114	Introduction of LTE Advanced inter-band Carrier Aggregation of Band 23 and Band 29 to TS 36.307 (Rel-12)	11.3. 0	12.0.0
2013-06 F	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)	11.3. 0	12.0.0
2013-06 F	RP-60	RP-130777	120	Introduction of CA_3A-19A to TS 36.307	11.3. 0	12.0.0
2013-06 F	RP-60	RP-130783	123	Introduction of CA_19A-21A to TS 36.307	11.3. 0	12.0.0
2013-06 F	RP-60	RP-130775	131	Introduction of CA_2A-13A to TS 36.307	11.3. 0	12.0.0
2013-06 F	RP-60	RP-130791	136	Introduction of Band 30	11.3. 0	12.0.0
2013-06 F	RP-60	RP-130790	143	Introduction of LTE 450 into TS 36.307 R12	11.3. 0	12.0.0
2013-06 F	RP-60	RP-130787	150	Introduction of CA_4A-4A into 36.307 Rel-12	11.3. 0	12.0.0
09-2013 F	RP-61	RP-131300	153	36.307 CR for LTE_CA_C_B3 (Rel-12)	12.0. 0	12.1.0
09-2013 F	RP-61	RP-131296	160	[Rel-12] Add requirements for CA_1A-26A into TS36.307	12.0. 0	12.1.0
09-2013 F	RP-61	RP-131297	163	Introduction of CA_2A-4A to TS 36.307	12.0. 0	12.1.0
09-2013 F	RP-61	RP-131298	167	Introduction of inter-band CA Band 2+5	12.0. 0	12.1.0
12-2013 F	RP-62	RP-131965	173	Introduction of CA_23A-23A to TS 36.307	12.1. 0	12.2.0
12-2013 F	RP-62	RP-131946	178	Introduction of CA band combination Band2 + Band12 to TS 36.307	12.1. 0	12.2.0
12-2013 F	RP-62	RP-131954	181	Introduction of CA band combination Band12 + Band25 to TS 36.307	12.1. 0	12.2.0
12-2013 F	RP-62	RP-131959	184	Introduction of LTE_CA_C_B27 to 36.307 (Rel-12)	12.1. 0	12.2.0
12-2013 F	RP-62	RP-131957	192	Introduction of CA_23B to TS 36.307	12.1. 0	12.2.0
			194	Introduction of Intra-band non-contiguous CA in band 3 to TS 36.307	12.1. 0	12.2.0
			200	Introduction of CA band combination Band5 + Band25 to TS 36.307	12.1. 0	12.2.0
12-2013 F	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	12.1. 0	12.2.0
12-2013 F	RP-62	RP-131948	204	Introduction of CA band combination B5 + B7 to TS 36.307 R12	12.1. 0	12.2.0
12-2013					12.1.	12.2.0

12-2013	RP-62	RP-131967	211	Correction to release independent specification	12.1. 0	12.2.0
12-2013	RP-62	RP-131925	216	UE performance requirements in release independent specification for CA	12.1. 0	12.2.0
12-2013	RP-62	RP-131963	219	Introduction of CA_7A-7A to TS 36.307 Rel-12	12.1. 0	12.2.0
03-2014	RP-63	RP-140371	235	Release independence of Band 14 HPUE	12.2. 0	12.3.0
03-2014	RP-63	RP-140386	227	Introduction of CA band combination Band 3 and Band 27 to TS 36.307	12.2. 0	12.3.0
03-2014	RP-63	RP-140389	245r1	Correction to release independent specification	12.2. 0	12.3.0
03-2014	RP-63	RP-140388	210r1	Introduction of CA_39C to TS 36.307	12.2. 0	12.3.0
03-2014	RP-63	RP-140387	197r1	Introduction of CA_39A-41A to TS 36.307	12.2. 0	12.3.0
06-2014	RP-64	RP-140911	259	Introduction of CA band combination Band 1 and Band 5 to TS 36.307	_	12.4.0
06-2014	RP-64	RP-140918	300	Correction of Common RRM requirements for CA in release	12.3.0	12.4.0
06-2014	RP-64	RP-140916	280r1	independent specification (Rel-12)  Introduction of Band 20+32 CA		12.4.0
	1		1			
06-2014	RP-64	RP-140931 RP-140933	265	Introduction of CA 1+11 to 36.307 (Rel-12)		12.4.0
06-2014	RP-64		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-64	RP-140940	319	Introduction of LTE_CA_NC_B42 into 36.307	12.3.0	12.4.0
06-2014	RP-64	RP-140942	253	Introduction of CA band combination Band 3 and Band 27 to TS 36.307	12.3.0	12.4.0
06-2014	RP-64	RP-140942	340	Introduction of CA band combination Band 1 and Band 20 to TS 36.307	12.3.0	12.4.0
06-2014	RP-64	RP-140943	347	Introduction of CA band combination CA_41D into TS 36.307 (Rel-12)	12.3.0	12.4.0
09-2014	RP-65	RP-141110	0388r	[Rel-12] Introduction of inter-band CA_18-28 into TS36.307	12.4.0	12.5.0
09-2014	RP-65	RP-141200	1 0366r	Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12)		12.5.0
09-2014	RP-65	RP-141205	1 0363r	Introduction of CA_B1_B3 into TS 36.307 (Rel-12)		12.5.0
09-2014	RP-65	RP-141332	1 0429r	Introduction of CA_1A-7A into 36.307 (Rel -12)		12.5.0
09-2014	RP-65	RP-141340	1 0376r	Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-12)		12.5.0
09-2014	RP-65	RP-141467	1 0432	Introduction of 3 DL CA for Band 1+7+20		12.5.0
09-2014	RP-65	RP-141527	415r1	CR for 36.307 on CA UE performance requirement in Rel-12		12.5.0
09-2014	RP-65	RP-141551	360	Introduction of CA 8+11 to 36.307 (Rel-12)		12.5.0
09-2014	RP-65	RP-141552	379	Introduction of CA 41A-42A to TS 36.307		12.5.0
09-2014	RP-65	RP-141553	381	Introduction of a new bandwidth combination set for CA_25A-25A into 36.307	12.4.0	12.5.0
09-2014	RP-65	RP-141554	418r1	Introduction of requirements for 2DL inter-band carrier aggregation (FDD) and 2DL fallback	12.4.0	12.5.0
09-2014	RP-65	RP-141554	421	Introduction of requirements for 3DL inter-band carrier aggregation including Band 30		12.5.0
09-2014	RP-65	RP-141555	384	Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and Band 5 to TS 36.307(Rel.12)		
09-2014	RP-65	RP-141556	357r1	Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, Band 3 and Band 8 to TS 36.307		
09-2014	RP-65	RP-141558	402	36.307		12.5.0
09-2014	RP-65	RP-141560	352	Introduction of new CA_40C bandwidth combination set into 36.307		12.5.0
09-2014	RP-65	RP-141561	354	CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A-41C		12.5.0
12-2014	RP-66	RP-142142	440	UE RF requirements in the release independent spec		12.6.0
12-2014	RP-66	RP-142188	444	Revision of common RRM requirements for release independent specification		12.6.0
12-2014	RP-66	RP-142182	448	[Rel-12] Introduction of inter-band CA_1-28 into TS36.307		12.6.0
12-2014	RP-66	RP-142189	455	CR for TR 36.307: LTE_CA_B5_B13		12.6.0
12-2014	RP-66	RP-142190	458r2	Introduction of additional band combinations for 3DL inter-band CA		12.6.0
03-2015	RP-67	RP-150387	463	R4-73AH-0113: Correction of UE RF requirements for dual uplik to TS 36.307 Rel-12		12.7.0
03-2015	RP-67	RP-150392	468	CR for 36.307 on CA UE performance requirement in Rel-12		12.7.0
03-2015	RP-67	RP-150387	469	Further revision of RSRP requirement for 36.307 release 12		12.7.0
05-2015	RP-68	RP-151068	0511r 1	Introduction of CA_3A-40A to TS 36.307 R13		13.0.0
05-2015	RP-68	RP-151070	0513r 1	Introduction of CA_3A-40C to TS 36.307 R13		13.0.0
	RP-68	RP-150958	461r1	Introduction of dual uplink CA into 36.307	12.7.0	12 0 0
05-2015	KF-00	111 - 130330	70111	introduction of dadi apinit of this octor	12.7.0	13.0.0

05-2015         RP-68         RP-150974         506r1         Release independence CR for 4DL inter-band CA Rei-13         12.7.0         13.0.0           05-2015         RP-68         RP-150975         509         Introduction of non-contiguous Carrier Aggregation (CA) in Band 42 for 3DL         12.7.0         13.0.0           05-2015         RP-68         RP-151006         514         Introduction of CA_42D to TS 36.307         12.7.0         13.0.0           09-2015         RP-69         RP-151501         0520r Introduction of finished 4DL inter-band CAs to TS 36.307         13.0.0         13.1.0           09-2015         RP-69         RP-151503         0526 [Rel-13] Introduction of dual uplink CA into 36.307         13.0.0         13.1.0           09-2015         RP-69         RP-151499         0538 [Rel-13] Introduction of CA_7A-40A and CA_7A-40C to TS 36.307 R13         13.0.0         13.1.0           10-2015         RP-69         RP-151201         0543 [Introduction of CA_7A-40A and CA_7A-40C to TS 36.307 R13         13.1.0         13.1.1           12-2015         RP-70         RP-152158         0543a [Release independent requirements for CA_42E [Rel-13]         13.1.1         13.1.1           12-2015         RP-70         RP-152160         0549 [Introduction of 4DL NC CA in band42 in 36.307         13.1.1         13.1.1           <	05.0045	DD 00	DD 4500=0	T-00 (	004 004 1 104 0 146	1070	40.00
05-2015         RP-68         RP-150975         509         Introduction of non-contiguous Carrier Aggregation (CA) in Band 42 for 3DL         12.7.0         13.0.0           05-2015         RP-68         RP-151006         514         Introduction of CA_42D to TS 36.307         12.7.0         13.0.0           09-2015         RP-69         RP-151501         05201         Introduction of finished 4DL inter-band CAs to TS 36.307         13.0.0         13.1.0           09-2015         RP-69         RP-151499         0538         Rel-13 Introduction of dual uplink CA into 36.307         13.0.0         13.1.0           09-2015         RP-69         RP-151201         0543         Introduction of CA_7A-40A and CA_7A-40C to TS 36.307 R13         13.0.0         13.1.0           09-2015         RP-69         RP-152150         0543         Introduction of CA_7A-40A and CA_7A-40C to TS 36.307 R13         13.0.0         13.1.1           12-2015         RP-70         RP-152158         0543a         Release independent requirements for CA_42E (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152167         0561         Introduction of 4DL NC CA in band42 in 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152165         0562         Introduction of intra-band CA_8B to TS 36.307 </td <td>05-2015</td> <td>RP-68</td> <td>RP-150972</td> <td>503r1</td> <td>Release independence CR for 3DL inter-band CA Rel-13</td> <td></td> <td></td>	05-2015	RP-68	RP-150972	503r1	Release independence CR for 3DL inter-band CA Rel-13		
SDL   SP-68   RP-151006   514   Introduction of CA_42D to TS 36.307   13.0.0   13.1.0							
05-2015         RP-68         RP-151006         514         Introduction of CA_42D to TS 36.307         12.7.0         13.0.0           09-2015         RP-69         RP-151501         0520r         Introduction of finished 4DL inter-band CAs to TS 36.307         13.0.0         13.1.0           09-2015         RP-69         RP-151503         0526         [Rel-13] Introduction of dual uplink CA into 36.307         13.0.0         13.1.0           09-2015         RP-69         RP-151499         0538         Rel-13 3DL combinations         13.0.0         13.1.0           09-2015         RP-69         RP-151201         0543         Introduction of CA_7A-40A and CA_7A-40C to TS 36.307 R13         13.0.0         13.1.1           10-2015         RP-70         RP-152158         0543a         Release independent requirements for CA_42E (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152160         0549         Introduction of 4DL NC CA into TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152160         0549         Introduction of intra-band CA_8B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152160         0562         Introduction of intra-band CA_8B to TS 36.307         13.1.1         13.2.0	05-2015	RP-68	RP-150975	509		12.7.0	13.0.0
RP-69   RP-151501   0520r   Introduction of finished 4DL inter-band CAs to TS 36.307   13.0.0   13.1					3DL		
1	05-2015	RP-68	RP-151006	514	Introduction of CA_42D to TS 36.307	12.7.0	13.0.0
09-2015         RP-69         RP-151499         0538         Rel-13 3DL combinations         13.0.0         13.1.0           09-2015         RP-69         RP-151201         0543         Introduction of CA_7A-40A and CA_7A-40C to TS 36.307 R13         13.0.0         13.1.0           10-2015         Correction of the release in the cover page         13.1.0         13.1.1         13.2.0           12-2015         RP-70         RP-152158         0543a         Release independent requirements for CA_42E (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152150         0549         Introduction of 4DL NC CA in band42 in 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152168         0561         Introduction of intra-band CA_50.07         13.1.1         13.2.0           12-2015         RP-70         RP-152168         0562         Introduction of intra-band CA_8B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152167         0580         Introduction of intra-band CA_5B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152169         0590         Introduction of intra-band NC CA_5A-5A to TS 36.307         13.1.1         13.2.0           12-2015         RP-70	09-2015	RP-69	RP-151501	0520r	Introduction of finished 4DL inter-band CAs to TS 36.307	13.0.0	13.1.0
09-2015         RP-69         RP-151499         0538         Rel-13 3DL combinations         13.0.0         13.1.0           09-2015         RP-69         RP-151201         0543         Introduction of CA_7A-40A and CA_7A-40C to TS 36.307 R13         13.0.0         13.1.0           10-2015         Correction of the release in the cover page         13.1.0         13.1.1         13.2.0           12-2015         RP-70         RP-152158         0543a         Release independent requirements for CA_42E (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152150         0549         Introduction of 4DL NC CA in band42 in 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152168         0561         Introduction of intra-band CA_50.07         13.1.1         13.2.0           12-2015         RP-70         RP-152168         0562         Introduction of intra-band CA_8B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152167         0580         Introduction of intra-band CA_5B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152169         0590         Introduction of intra-band NC CA_5A-5A to TS 36.307         13.1.1         13.2.0           12-2015         RP-70				1			
09-2015         RP-69         RP-151201         0543         Introduction of CA_7A-40A and CA_7A-40C to TS 36.307 R13         13.0.0         13.1.0           10-2015         RP-70         RP-152158         0543a         Release independent requirements for CA_42E (Rel-13)         13.1.1         13.1.1           12-2015         RP-70         RP-152160         0549         Introduction of 4DL NC CA in band42 in 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152157         0561         Introduction of intra-band CA_8B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152168         0562         Introduction of intra-band CA_8B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152167         0580         Introduction of intra-band CA_8B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152167         0589         Introduction of intra-band CA_5B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152169         0590         Introduction of intra-band NC CA_5A-5A to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152166         0596         Introduction of 3DL/3UL Inter-band CA in TS36.307         13.1.1	09-2015	RP-69	RP-151503	0526	[Rel-13] Introduction of dual uplink CA into 36.307	13.0.0	13.1.0
10-2015   RP-70   RP-152158   0543a   Release independent requirements for CA_42E (Rel-13)   13.1.1   13.2.0     12-2015   RP-70   RP-152160   0549   Introduction of 4DL NC CA in band42 in 36.307   13.1.1   13.2.0     12-2015   RP-70   RP-152157   0561   Introducing B20 + B67 CA into TS 36.307   13.1.1   13.2.0     12-2015   RP-70   RP-152168   0562   Introduction of intra-band CA_8B to TS 36.307   13.1.1   13.2.0     12-2015   RP-70   RP-152161   0580   Introduction of Band 65   13.1.1   13.2.0     12-2015   RP-70   RP-152167   0589   Introduction of intra-band CA_5B to TS 36.307   13.1.1   13.2.0     12-2015   RP-70   RP-152169   0590   Introduction of intra-band CA_5B to TS 36.307   13.1.1   13.2.0     12-2015   RP-70   RP-152169   0590   Introduction of intra-band NC CA_5A-5A to TS 36.307   13.1.1   13.2.0     12-2015   RP-70   RP-152169   0596   Introduction of 3DL/3UL Inter-band CA in TS36.307   13.1.1   13.2.0     12-2015   RP-70   RP-152163   0598   Introduction of 5DL/1UL CA combinations into TS 36.307   13.1.1   13.2.0     12-2015   RP-70   RP-152162   0604   Introduction of finished 4DL inter-band CAs to TS 36.307   13.1.1   13.2.0     12-2015   RP-70   RP-152163   0612   Introduction of 1447-1467MHz Band into 36.307   13.1.1   13.2.0     12-2015   RP-70   RP-152161   0620   Rel-13 3DL combinations   13.1.1   13.2.0     12-2015   RP-70   RP-152161   0620   Rel-13 3DL combinations   13.1.1   13.2.0     12-2015   RP-70   RP-152161   0620   Rel-13 3DL combinations   13.1.1   13.2.0     12-2015   RP-70   RP-152165   0634   Introduction of intra-band non-contiguous CA in Band 41 for 4DL   13.1.1   13.2.0     12-2015   RP-70   RP-152165   0634   Introduction of intra-band non-contiguous CA in Band 41 for 4DL   13.1.1   13.2.0     12-2015   RP-70   RP-152165   0634   Introduction of intra-band non-contiguous CA in Band 41 for 4DL   13.1.1   13.2.0     12-2015   RP-70   RP-152165   0634   Introduction of intra-band non-contiguous CA in Band 41 for 4DL   13.1.1   13.2.0     13-2015   RP-70   RP-152165   063	09-2015	RP-69	RP-151499	0538	Rel-13 3DL combinations	13.0.0	13.1.0
12-2015         RP-70         RP-152158         0543a         Release independent requirements for CA_42E (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152160         0549         Introduction of 4DL NC CA in band42 in 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152157         0561         Introduction of intra-band CA_8B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152168         0562         Introduction of intra-band CA_8B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152171         0580         Introduction of Band 65         13.1.1         13.2.0           12-2015         RP-70         RP-152167         0589         Introduction of intra-band CA_5B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152169         0590         Introduction of intra-band NC CA_5A-5A to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152160         0596         Introduction of 3DL/3UL Inter-band CA in TS36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152163         0598         Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-13)         13.1.1         13.2.0 <td>09-2015</td> <td>RP-69</td> <td>RP-151201</td> <td>0543</td> <td>Introduction of CA_7A-40A and CA_7A-40C to TS 36.307 R13</td> <td>13.0.0</td> <td>13.1.0</td>	09-2015	RP-69	RP-151201	0543	Introduction of CA_7A-40A and CA_7A-40C to TS 36.307 R13	13.0.0	13.1.0
12-2015         RP-70         RP-152160         0549         Introduction of 4DL NC CA in band42 in 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152157         0561         Introducing B20 + B67 CA into TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152168         0562         Introduction of intra-band CA_8B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152171         0580         Introduction of Band 65         13.1.1         13.2.0           12-2015         RP-70         RP-152167         0589         Introduction of intra-band CA_5B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152169         0590         Introduction of intra-band NC CA_5A-5A to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152160         0596         Introduction of 3DL/3UL Inter-band CA in TS36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152163         0598         Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152162         0604         Introduction of finished 4DL inter-band CAs to TS 36.307         13.1.1         13.2.0	10-2015				Correction of the release in the cover page	13.1.0	13.1.1
12-2015         RP-70         RP-152157         0561         Introducing B20 + B67 CA into TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152168         0562         Introduction of intra-band CA_8B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152171         0580         Introduction of Band 65         13.1.1         13.2.0           12-2015         RP-70         RP-152167         0589         Introduction of intra-band CA_5B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152169         0590         Introduction of intra-band NC CA_5A-5A to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152166         0596         Introduction of 3DL/3UL Inter-band CA in TS36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152163         0598         Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152162         0604         Introduction of finished 4DL inter-band CAs to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152173         0612         Introduction of 1447-1467MHz Band into 36.307         13.1.1         13.2.0	12-2015	RP-70	RP-152158	0543a	Release independent requirements for CA_42E (Rel-13)	13.1.1	13.2.0
12-2015         RP-70         RP-152168         0562         Introduction of intra-band CA_8B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152171         0580         Introduction of Band 65         13.1.1         13.2.0           12-2015         RP-70         RP-152167         0589         Introduction of intra-band CA_5B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152169         0590         Introduction of intra-band NC CA_5A-5A to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152166         0596         Introduction of 3DL/3UL Inter-band CA in TS36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152163         0598         Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152162         0604         Introduction of finished 4DL inter-band CAs to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152173         0612         Introduction of 1447-1467MHz Band into 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152156         0616         Rel-13 2DL combinations         13.1.1         13.2.0 <t< td=""><td>12-2015</td><td>RP-70</td><td>RP-152160</td><td>0549</td><td>Introduction of 4DL NC CA in band42 in 36.307</td><td>13.1.1</td><td>13.2.0</td></t<>	12-2015	RP-70	RP-152160	0549	Introduction of 4DL NC CA in band42 in 36.307	13.1.1	13.2.0
12-2015         RP-70         RP-152171         0580         Introduction of Band 65         13.1.1         13.2.0           12-2015         RP-70         RP-152167         0589         Introduction of intra-band CA_5B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152169         0590         Introduction of intra-band NC CA_5A-5A to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152166         0596         Introduction of 3DL/3UL Inter-band CA in TS36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152163         0598         Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152162         0604         Introduction of finished 4DL inter-band CAs to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152173         0612         Introduction of 1447-1467MHz Band into 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152156         0616         Rel-13 2DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152161         0620         Rel-13 3DL combinations         13.1.1         13.2.0           12-2015	12-2015	RP-70	RP-152157	0561	Introducing B20 + B67 CA into TS 36.307	13.1.1	13.2.0
12-2015         RP-70         RP-152167         0589         Introduction of intra-band CA_5B to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152169         0590         Introduction of intra-band NC CA_5A-5A to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152166         0596         Introduction of 3DL/3UL Inter-band CA in TS36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152163         0598         Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152162         0604         Introduction of finished 4DL inter-band CAs to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152173         0612         Introduction of 1447-1467MHz Band into 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152156         0616         Rel-13 2DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152161         0620         Rel-13 3DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152172         0628         Introduction of Band 66         13.1.1         13.2.0           12-2015	12-2015	RP-70	RP-152168	0562	Introduction of intra-band CA_8B to TS 36.307	13.1.1	13.2.0
12-2015         RP-70         RP-152169         0590         Introduction of intra-band NC CA_5A-5A to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152166         0596         Introduction of 3DL/3UL Inter-band CA in TS36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152163         0598         Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152162         0604         Introduction of finished 4DL inter-band CAs to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152173         0612         Introduction of 1447-1467MHz Band into 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152156         0616         Rel-13 2DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152161         0620         Rel-13 3DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152172         0628         Introduction of Band 66         13.1.1         13.2.0           12-2015         RP-70         RP-152159         0632         Introduction of intra-band non-contiguous CA in Band 41 for 4DL         13.1.1         13.2.0	12-2015	RP-70	RP-152171	0580	Introduction of Band 65	13.1.1	13.2.0
12-2015         RP-70         RP-152166         0596         Introduction of 3DL/3UL Inter-band CA in TS36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152163         0598         Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152162         0604         Introduction of finished 4DL inter-band CAs to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152173         0612         Introduction of 1447-1467MHz Band into 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152156         0616         Rel-13 2DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152161         0620         Rel-13 3DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152161         0620         Rel-13 3DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152172         0628         Introduction of Band 66         13.1.1         13.2.0           12-2015         RP-70         RP-152159         0632         Introduction of intra-band non-contiguous CA in Band 41 for 4DL         13.1.1         13.2.0           12-2015	12-2015	RP-70	RP-152167	0589	Introduction of intra-band CA_5B to TS 36.307	13.1.1	13.2.0
12-2015         RP-70         RP-152163         0598         Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-13)         13.1.1         13.2.0           12-2015         RP-70         RP-152162         0604         Introduction of finished 4DL inter-band CAs to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152173         0612         Introduction of 1447-1467MHz Band into 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152156         0616         Rel-13 2DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152161         0620         Rel-13 3DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152172         0628         Introduction of Band 66         13.1.1         13.2.0           12-2015         RP-70         RP-152159         0632         Introduction of intra-band non-contiguous CA in Band 41 for 4DL         13.1.1         13.2.0           12-2015         RP-70         RP-152165         0634         Introduction of 2 UL and 3 DL mixed inter/intra cases without MSD into         13.1.1         13.2.0	12-2015	RP-70	RP-152169	0590	Introduction of intra-band NC CA_5A-5A to TS 36.307	13.1.1	13.2.0
12-2015         RP-70         RP-152162         0604         Introduction of finished 4DL inter-band CAs to TS 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152173         0612         Introduction of 1447-1467MHz Band into 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152156         0616         Rel-13 2DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152161         0620         Rel-13 3DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152172         0628         Introduction of Band 66         13.1.1         13.2.0           12-2015         RP-70         RP-152159         0632         Introduction of intra-band non-contiguous CA in Band 41 for 4DL         13.1.1         13.2.0           12-2015         RP-70         RP-152165         0634         Introduction of 2 UL and 3 DL mixed inter/intra cases without MSD into         13.1.1         13.2.0	12-2015	RP-70	RP-152166	0596	Introduction of 3DL/3UL Inter-band CA in TS36.307	13.1.1	13.2.0
12-2015         RP-70         RP-152173         0612         Introduction of 1447-1467MHz Band into 36.307         13.1.1         13.2.0           12-2015         RP-70         RP-152156         0616         Rel-13 2DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152161         0620         Rel-13 3DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152172         0628         Introduction of Band 66         13.1.1         13.2.0           12-2015         RP-70         RP-152159         0632         Introduction of intra-band non-contiguous CA in Band 41 for 4DL         13.1.1         13.2.0           12-2015         RP-70         RP-152165         0634         Introduction of 2 UL and 3 DL mixed inter/intra cases without MSD into         13.1.1         13.2.0	12-2015	RP-70	RP-152163	0598	Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-13)	13.1.1	13.2.0
12-2015         RP-70         RP-152156         0616         Rel-13 2DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152161         0620         Rel-13 3DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152172         0628         Introduction of Band 66         13.1.1         13.2.0           12-2015         RP-70         RP-152159         0632         Introduction of intra-band non-contiguous CA in Band 41 for 4DL         13.1.1         13.2.0           12-2015         RP-70         RP-152165         0634         Introduction of 2 UL and 3 DL mixed inter/intra cases without MSD into         13.1.1         13.2.0	12-2015	RP-70	RP-152162	0604	Introduction of finished 4DL inter-band CAs to TS 36.307	13.1.1	13.2.0
12-2015         RP-70         RP-152161         0620         Rel-13 3DL combinations         13.1.1         13.2.0           12-2015         RP-70         RP-152172         0628         Introduction of Band 66         13.1.1         13.2.0           12-2015         RP-70         RP-152159         0632         Introduction of intra-band non-contiguous CA in Band 41 for 4DL         13.1.1         13.2.0           12-2015         RP-70         RP-152165         0634         Introduction of 2 UL and 3 DL mixed inter/intra cases without MSD into         13.1.1         13.2.0	12-2015	RP-70	RP-152173	0612	Introduction of 1447-1467MHz Band into 36.307	13.1.1	13.2.0
12-2015         RP-70         RP-152172         0628         Introduction of Band 66         13.1.1         13.2.0           12-2015         RP-70         RP-152159         0632         Introduction of intra-band non-contiguous CA in Band 41 for 4DL         13.1.1         13.2.0           12-2015         RP-70         RP-152165         0634         Introduction of 2 UL and 3 DL mixed inter/intra cases without MSD into         13.1.1         13.2.0	12-2015	RP-70	RP-152156	0616	Rel-13 2DL combinations	13.1.1	13.2.0
12-2015         RP-70         RP-152159         0632         Introduction of intra-band non-contiguous CA in Band 41 for 4DL         13.1.1         13.2.0           12-2015         RP-70         RP-152165         0634         Introduction of 2 UL and 3 DL mixed inter/intra cases without MSD into         13.1.1         13.2.0	12-2015	RP-70	RP-152161	0620	Rel-13 3DL combinations	13.1.1	13.2.0
12-2015 RP-70 RP-152165 0634 Introduction of 2 UL and 3 DL mixed inter/intra cases without MSD into 13.1.1 13.2.0	12-2015	RP-70	RP-152172	0628	Introduction of Band 66	13.1.1	13.2.0
	12-2015	RP-70	RP-152159	0632	Introduction of intra-band non-contiguous CA in Band 41 for 4DL	13.1.1	13.2.0
	12-2015	RP-70	RP-152165	0634	Introduction of 2 UL and 3 DL mixed inter/intra cases without MSD into	13.1.1	13.2.0
					36.307 Rel-13		

### History

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