# Foreword

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The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

x the first digit:

1 presented to TSG for information;

2 presented to TSG for approval;

3 or greater indicates TSG approved document under change control.

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 establishes the minimum RF requirements for NR User Equipment (UE) Interworking operation with other radios. This includes but is not limited to additional requirements for carrier aggregation or NR dual connectivity between Range 1 and Range 2 and additional requirements due to NR non-standalone (NSA) operation mode with E-UTRA.

# 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 38.101-1: "NR; User Equipment (UE) radio transmission and reception; Part 1: Range 1 Standalone"

[3] 3GPP TS 38.101-2: "NR; User Equipment (UE) radio transmission and reception; Part 2: Range 2 Standalone"

[4] 3GPP TS 36.101: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception"

[5] 3GPP TS 38.521-3: "NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Range 1 and Range 2 Interworking operation with other radios"

[6] Recommendation ITU-R M.1545: "Measurement uncertainty as it applies to test limits for the terrestrial component of International Mobile Telecommunications-2000"

[7] 3GPP TS 36.211: "E-UTRA; Physical channels and modulation"

[8] 3GPP TS 36.331: " Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification"

[9] 3GPP TS 38.331: "NR; Radio Resource Control (RRC) protocol specification"

[10] 3GPP TS 38.213: "NR; Physical layer procedures for control"

[11] 3GPP TS 38.306: "NR; User Equipment (UE) radio access capabilities

[12] 3GPP TS 38.133: "NR; Requirements for support of radio resource management".

[13] 3GPP TS 38.211: "NR; Physical channels and modulation".

# 3 Definitions, symbols 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].

## 3.2 Symbols

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

ΔRIB,c Allowed reference sensitivity relaxation due to support for CA or DC operation, for serving cell *c*.

ΔTIB,c Allowed maximum configured output power relaxation due to support for CA or DC operation, for serving cell *c*

BWE-UTRA\_Channel Channel bandwidth of E-UTRA carrier

BWE-UTRA\_Channel\_CA Channel bandwidth of E-UTRA sub-block which is composed of intra-band contiguous CA E-UTRA carriers

BWNR\_Channel Channel bandwidth of NR carrier

BWNR\_Channel\_CA Channel bandwidth of NR sub-block which is composed of intra-band contiguous CA NR carriers

Ceil(x) Rounding upwards; ceil(x) is the smallest integer such that ceil(x) ≥ x

EN-DCACLR The ratio of the filtered mean power centred on the aggregated sub-block bandwidth ENBW to the filtered mean power centred on an adjacent bandwidth of the same size ENBW

E-UTRAACLR E-UTRA ACLR

FC *RF reference frequency* for the carrier center on the channel raster

FDL\_low The lowest frequency of the downlink *operating band*

FDL\_high The highest frequency of the downlink *operating band*

FUL\_low The lowest frequency of the uplink *operating band*

FUL\_high The highest frequency of the uplink *operating band*

FOOB The boundary between the NR out of band emission and spurious emission domains

LCRB Transmission bandwidth which represents the length of a contiguous resource block allocation expressed in units of resource blocks

Max() The largest of given numbers

Min() The smallest of given numbers

NRACLR NR ACLR

NRB Transmission bandwidth configuration, expressed in units of resource blocks

NRB\_agg The number of the aggregated RBs within the fully allocated aggregated channel bandwidth

for carrier 1 to j, where *μ* is defined in TS 38.211 [13]

NRB,c The transmission bandwidth configuration of component carrier c, expressed in units of resource blocks

for carrier j, where *μ* is defined in TS 38.211 [13]

PCMAX The configured maximum UE output power

RBstart Indicates the lowest RB index of transmitted resource blocks

Wgap The sub-block gap between the two sub-blocks

## 3.3 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].

ACLR Adjacent Channel Leakage Ratio

ACS Adjacent Channel Selectivity

A-MPR Additional Maximum Power Reduction

BCS Bandwidth Combination Set

CA Carrier Aggregation

CC Component Carrier

DC Dual Connectivity

EN-DC E-UTRA/NR DC

EVM Error Vector Magnitude

FDM Frequency Division Multiplexing

FR Frequency Range

ENBW The aggregated bandwidth of an E-UTRA sub-block and an adjacent NR sub-block

ITU-R Radiocommunication Sector of the International Telecommunication Union

MBW Measurement bandwidth defined for the protected band

MPR Allowed maximum power reduction

MSD Maximum Sensitivity Degradation

MCG Master Cell Group

NR New Radio

NS Network Signalling

NSA Non-Standalone, a mode of operation where operation of an other radio is assisted with an other radio

OOB Out-of-band

OOBE Out-of-band emission

OTA Over The Air

PRB Physical Resource Block

RE Resource Element

REFSENS Reference Sensitivity

RF Radio Frequency

Rx Receiver

SCG Secondary Cell Group

SCS Subcarrier spacing

SEM Spectrum Emission Mask

SUL Supplementary uplink

TDM Time Division Multiplex

Tx Transmitter

UE User Equipment

UL MIMO Up Link Multiple Antenna transmission

ULSUP Uplink sharing from UE perspective

# 4 General

## 4.1 Relationship between minimum requirements and test requirements

The present document is interwork specification for NR UE, covering RF characteristics and minimum performance requirements. Conformance to the present specification is demonstrated by fulfilling the test requirements specified in the conformance specification 3GPP TS 38.521-3 [5].

The Minimum Requirements given in this specification make no allowance for measurement uncertainty. The test specification TS 38.521-3 [5] defines test tolerances. These test tolerances are individually calculated for each test. The test tolerances are used to relax the minimum requirements in this specification to create test requirements. For some requirements, including regulatory requirements, the test tolerance is set to zero.

The measurement results returned by the test system are compared - without any modification - against the test requirements as defined by the shared risk principle.

The shared risk principle is defined in Recommendation ITU‑R M.1545 [6].

## 4.2 Applicability of minimum requirements

a) In this specification the Minimum Requirements are specified as general requirements and additional requirements. Where the Requirement is specified as a general requirement, the requirement is mandated to be met in all scenarios

b) For specific scenarios for which an additional requirement is specified, in addition to meeting the general requirement, the UE is mandated to meet the additional requirements.

c) The spurious emissions power requirements are for the long-term average of the power. For the purpose of reducing measurement uncertainty it is acceptable to average the measured power over a period of time sufficient to reduce the uncertainty due to the statistical nature of the signal

d) Terminal that supports EN-DC configuration shall meet E-UTRA requirements as specified in TS 36.101 [4] and NR requirements as in TS 38.101-1 [2] and TS 38.101-2 [3] unless otherwise specified in this specification

e) All the requirements for intra-band contiguous and non-contiguous EN-DC apply under the assumption of the same uplink-downlink and special subframe configurations in the E-UTRA and slot format indicated by UL-DL-configurationCommon and UL-DL-configurationDedicated in the NR for the EN-DC, a time offset between the two RATs configurations may be required.

f) For EN-DC combinations with CA configurations for E-UTRA and/or NR, all the requirements for E-UTRA and/or NR all the requirements for E-UTRA and/or NR intra-band contiguous and non-contiguous CA apply under the assumption of the same slot format indicated by UL-DL-configurationCommon and UL-DL-configurationDedicated in the PSCell and SCells for NR and the same uplink-downlink and special subframe configurations in Pcell and SCells for E-UTRA.

A terminal which supports an EN-DC configuration shall support:

If any subsets of the EN-DC configuration do not specify its own bandwidth combination sets in 5.3B, then the terminal shall support the same E-UTRA bandwidth combination sets it signals the support for in E-UTRA CA configuration part of E-UTRA – NR DC and shall support the same NR bandwidth combination sets it signals the support for in NR CA configuration part of E-UTRA – NR DC.

Else if one of the subsets of the EN-DC configuration specify its own bandwidth combination sets in 5.3B, then the terminal shall support a product set of channel bandwidth for each band specified by E-UTRA bandwidth combination sets, NR bandwidth combination sets, and EN-DC bandwidth combination sets it singnals the support.

A terminal which supports an inter-band EN-DC configuration with a certain UL configuration shall support the all lower order DL configurations of the lower order EN-DC combinations, which have this certain UL configuration and the fallbacks of this UL configuration.

For CA or DC configurations, which include FR2 intra-band CA configurations with multiple FR2 sub-blocks, where at least one of the sub-blocks is a contiguous CA configuration:

- if the field *partialFR2-FallbackRX-Req* is not present, the UE shall meet all applicable UE RF requirements for the highest order CA configuration and all associated fallback CA configurations;

- if the field *partialFR2-FallbackRX-Req* is present, for each FR2 intra-band CA configuration with multiple sub-blocks that the UE indicates support for explicitly in UE capability signalling: the in-gap UE RF requirements in clauses 7.5A, 7.5B, 7.6A, 7.6B apply as the equivalent requirements for the associated fallback FR2 intra-band CA configurations with the same number of sub-blocks, where at least one of the sub-blocks consists of a contiguous CA configuration. The UE shall meet all applicable UE RF requirements for fallback CA configurations with a lesser number of sub-blocks;

- regardless of the field *partialFR2-FallbackRX-Req*, the UE shall meet all DL out-of-gap requirements for all lower order fallback CA configurations.

Terminal that supports inter-band NR-DC between FR1 and FR2 configuration shall meet the requirements for corresponding CA configuration (suffix A), unless otherwise specified.

## 4.3 Specification suffix information

Unless stated otherwise the following suffixes are used for indicating at 2nd level clause, shown in Table 4.3-1.

Table 4.3-1: Definition of suffixes

|  |  |
| --- | --- |
| Clause suffix | Variant |
| None | Single Carrier |
| A | Carrier Aggregation (CA) between FR1 and FR2 |
| B | Dual-Connectivity (DC) with and without SUL including UL sharing from UE perspective, inter-band NR DC between FR1 and FR2 |
| D | UL MIMO |

# 5 Operating bands and channel arrangement

## 5.1 General

The channel arrangements presented in this clause are based on the operating bands and channel bandwidths defined in the present release of specifications.

NOTE: Other operating bands and channel bandwidths may be considered in future releases.

Requirements throughout the RF specifications are in many cases defined separately for different frequency ranges (FR). The frequency ranges in which NR can operate according to this version of the specifications are identified as described in Table 5.1-1.

Table 5.1-1: Definition of frequency ranges

|  |  |
| --- | --- |
| Frequency range designation | Corresponding frequency range |
| FR1 | 410 MHz – 7125 MHz |
| FR2 | 24250 MHz – 52600 MHz |

The present specification covers band combinations including

- at least one FR1 operating band and one FR2 operating band for carrier aggregation and dual connectivity operations;

- at least one E-UTRA operating band for dual connectivity operations.

## 5.2 Operating bands

NR is designed to operate in FR1 operating bands defined in TS 38.101-1 [2] and FR2 operating bands defined in TS 38.101-2 [3]. E-UTRA is designed to operate in operating bands defined in TS 36.101 [4].

## 5.2A Operating bands for CA

### 5.2A.1 Inter-band CA between FR1 and FR2

NR carrier aggregation are designed to operate in the operating bands defined in Table 5.2A.1‑1. The band combinations include at least one FR1 operating band and one FR2 operating band.

If the mandatory simultaneous Rx/Tx capability applies for a lower order band combination, when the applicable lower order band combination is a band pair in a higher order band combination, the mandatory simultaneous Rx/Tx capability also applies for the band pairin the higher order band combination.

Table 5.2A.1-1: Band combinations for inter-band NR CA between FR1 and FR2

|  |  |
| --- | --- |
| NR CA Band | NR Band |
| CA\_n8-n2581 | n8, n258 |
| CA\_n71-n2571 | n71, n257 |
| CA\_n77-n2571 | n77, n257 |
| CA\_n78-n2571 | n78, n257 |
| CA\_n79-n2571 | n79, n257 |
| NOTE 1: Applicable for UE supporting inter-band carrier aggregation with mandatory simultaneous Rx/Tx capability. | |

## 5.2B Operating bands for DC

### 5.2B.1 General

The operating bands are specified in clause 5.5B for operation with EN-DC, NGEN-DC, NE-DC or NR-DC configured.

### 5.2B.2 Void

### 5.2B.3 Void

### 5.2B.4 Void

### 5.2B.5 Void

### 5.2B.6 Void

### 5.2B.7 Void

## 5.3 UE Channel bandwidth

## 5.3A UE Channel bandwidth for CA

### 5.3A.1 Inter-band CA between FR1 and FR2

For inter-band NR CA between FR1 and FR2, a carrier aggregation configuration is a combination of operating bands, each supporting a carrier aggregation bandwidth class as specified in clause 5.3A.5 of TS 38.101-1 [2] and clause 5.3A.4 of TS 38.101-2 [3] independently.

## 5.3B UE Channel bandwidth for EN-DC

For intra-band contiguous EN-DC, the aggregated channel bandwidth is sum of the individual NR and E-UTRA channel bandwidths assuming nominal EN-DC channel with 0 kHz offset spacing as specified in clause 5.4.

ENBW = BWNR\_Channel + BWE-UTRA\_Channel

In the case where the NR sub-block and/or the E-UTRA sub-block itself is composed of intra-band contiguous CA carriers, the EN-DC aggregated channel bandwidth is the sum of the aggregated channel bandwidths of the NR and E-UTRA sub-blocks assuming nominal EN-DC channel spacing between the NR sub-block and E-UTRA sub-block.

ENBW = BWNR\_Channel\_CA + BWE-UTRA\_Channel\_CA

For NR inter-band dual connectivity specified in 5.5B.7, the corresponding NR CA configurations in 5.5A.1, i.e., dual uplink inter-band carrier aggregation between FR1 and FR2 with uplink assigned to two NR bands, are applicable to Dual Connectivity.

NOTE 1: Requirements for the dual connectivity configurations are defined in the clause corresponding NR uplink CA between FR1 and FR2 configurations, unless otherwise specified.

Intra-band contiguous EN-DC configurations are defined using intra-band contiguous EN-DC bandwidth class notation DC\_(n)Xyz where the first EN-DC bandwidth class letter y indicates the number of contiguous E-UTRA carriers and the second EN-DC bandwidth class letter z indicates the number of contiguous NR carriers for the EN-DC combination of E-UTRA Band X and NR Band nX. Applicable contiguous intraband EN-DC bandwidth classes are listed in Table 5.3.B-1.

Table 5.3.B-1: Intra-band contiguous EN-DC bandwidth classes

|  |  |  |
| --- | --- | --- |
| Intra-band contiguous EN-DC bandwidth class | Number of  contiguous CC | |
| E-UTRA | NR |
| AA | 1 | 1 |
| CA | 2 | 1 |
| DA | 3 | 1 |

### 5.3B.1 Intra-band EN-DC in FR1

#### 5.3B.1.1 General

The requirements for intra-band EN-DC in this specification are defined for EN-DC configurations with associated bandwidth combination sets.

For each EN-DC configuration, requirements are specified for all bandwidth combinations contained in a *bandwidth combination set*, which is indicated per supported band combination in the UE radio access capability. A UE can indicate support of several bandwidth combination sets per band combination.

#### 5.3B.1.2 BCS for Intra-band contiguous EN-DC

For intra-band contiguous EN-DC, an EN-DC configuration is consisting of an E-UTRA band and a corresponding NR band having the same frequency range which supports an intra-band contiguous EN-DC bandwidth class.

Bandwidth combination sets for intra-band contiguous EN-DC are specified in Table 5.3B.1.2-1. The EN-DC configurations and bandwidth combination sets in Table 5.3B.1.2-1 also apply to higher order EN-DC combinations that include inter-band and intra-band EN-DC on the downlink and inter-band EN-DC on the uplink. If no BCS is reported in the UE capabilities for an intra-band combination the default is that the UE supports BCS0.

Table 5.3B.1.2-1: EN-DC configurations and bandwidth combination sets defined for intra-band contiguous EN-DC

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| E-UTRA – NR configuration / Bandwidth combination set | | | | | | |
| Downlink  EN-DC configuration | Uplink EN-DC configurations | Component carriers in order of increasing carrier frequency | | | Maximum aggregated  bandwidth (MHz) | Bandwidth combination set |
| Channel bandwidths for E-UTRA carrier (MHz) | Channel bandwidths for NR carrier (MHz) | Channel bandwidths for E-UTRA carrier (MHz) |
| DC\_(n)41AA | DC\_(n)41AA | 20 | 40, 60, 80,100 |  | 120 | 0 |
|  | 40, 60, 80,100 | 20 |
| 20 | 40, 50, 60, 80,100 |  | 120 | 1 |
|  | 40, 50, 60, 80,100 | 20 |
| DC\_(n)41CA | DC\_(n)41AA1, DC\_41A\_n41A2 | 20+20 | 40, 60, 80,100 |  | 140 | 0 |
|  | 40, 60, 80,100 | 20+20 |
| 20+20 | 40, 50, 60, 80,100 |  | 140 | 1 |
|  | 40, 50, 60, 80,100 | 20+20 |
| DC\_(n)41DA | DC\_(n)41AA1, DC\_41A\_n41A2 | 20+20+20 | 40, 60, 80,100 |  | 160 | 0 |
|  | 40, 60, 80,100 | 20+20+20 |
| 20+20+20 | 40, 50, 60, 80,100 |  | 160 | 1 |
|  | 40, 50, 60, 80,100 | 20+20+20 |
| DC\_(n)71AA | DC\_(n)71AA | 15 | 5 |  | 20 | 0 |
| 10 | 5, 10 |  |
| 5 | 5, 10, 15 |  |
|  | 5 | 15 |
|  | 5, 10 | 10 |
|  | 5, 10, 15 | 5 |
| NOTE 1: Void  NOTE 2: Void  NOTE 3: Void  NOTE 4: The channel bandwidths for E-UTRA or NR carrier should be at least supported in one of the BCS indicated in E-UTRA bandwidth combination sets or NR bandwidth combination sets if reported. | | | | | | |

#### 5.3B.1.3 BCS for Intra-band non-contiguous EN-DC

For intra-band non-contiguous EN-DC, an EN-DC configuration is consisting of an E-UTRA band and a corresponding NR band having the same frequency range which supports E-UTRA and NR carriers, where E-UTRA configuration is indicated by using E-UTRA CA bandwidth class as defined in TS 36.101 [4] and NR configuration is indicated by using NR CA bandwidth class as defined in TS 38.101-1 [2].

Requirements for intra-band non-contiguous EN-DC are defined for the EN-DC configurations and bandwidth combination sets specified in Table 5.3B.1.3-1. The EN-DC configurations and bandwidth combination sets in Table 5.3B.1.3-1 also apply to higher order EN-DC combinations that include inter-band and intra-band EN-DC on the downlink and inter-band EN-DC on the uplink. If no BCS is reported in the UE capabilities for an intra-band combination the default is that the UE supports BCS0.

Table 5.3B.1.3-1: EN-DC configurations and bandwidth combination sets defined for intra-band non-contiguous EN-DC

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| E-UTRA – NR configuration / Bandwidth combination set | | | | | | |
| Downlink  EN-DC configuration | Uplink EN-DC configurations | Component carriers in order of increasing carrier frequency | | | Maximum aggregated  bandwidth (MHz) | Bandwidth combination set |
| Channel bandwidths for E-UTRA carrier (MHz) | Channel bandwidths for NR carrier (MHz) | Channel bandwidths for E-UTRA carrier (MHz) |
| DC\_3A\_n3A | DC\_3A\_n3A(1) |  | 5, 10, 15, 20, 25, 30 | 5, 10, 15, 20 | 50 | 0 |
| DC\_41A\_n41A | DC\_41A\_n41A | 20 | 40, 60, 80,100 |  | 120 | 0 |
|  | 40, 60, 80,100 | 20 |
| 20 | 40, 50, 60, 80,100 |  | 120 | 1 |
|  | 40, 50, 60, 80,100 | 20 |
| DC\_41C\_n41A | DC\_41A\_n41A | 20+20 | 40, 60, 80,100 |  | 140 | 0 |
|  | 40, 60, 80,100 | 20+20 |
| 20+20 | 40, 50, 60, 80,100 |  | 140 | 1 |
|  | 40, 50, 60, 80,100 | 20+20 |
| DC\_41D\_n41A | DC\_41A\_n41A | 20+20+20 | 40, 60, 80,100 |  | 160 | 0 |
|  | 40, 60, 80,100 | 20+20+20 |
| 20+20+20 | 40, 50, 60, 80,100 |  | 160 | 1 |
|  | 40, 50, 60, 80,100 | 20+20+20 |
| NOTE 1: Only single switched UL is supported in Rel.15  NOTE 2: Void  NOTE 3: The channel bandwidths for E-UTRA or NR carrier should be at least supported in one of the BCS indicated in E-UTRA bandwidth combination sets or NR bandwidth combination sets if reported | | | | | | |

## 5.4 Void

## 5.4A Channel arrangement for CA

The channel arrangement for CA operations in FR1 and FR2 as specified in TS 38.101-1 [2] and TS 38.101-2 [3], respectively.

## 5.4B Channel arrangement for DC

The channel arrangement for intra-band EN-DC operations in FR1 is specified in TS 36.101 [4] and TS 38.101-1 [2] , respectively.

### 5.4B.1 Channel spacing for intra-band EN-DC carriers

The spacing between carriers will depend on the deployment scenario, the size of the frequency block available and the channel bandwidths. The nominal channel spacing between and E-UTRA carrier and an adjacent NR carrier for intra-band contiguous EN-DC is defined as following:

- For NR operating bands with 100 kHz channel raster,

Nominal Channel spacing = (BWE-UTRA\_Channel + BWNR\_Channel)/2

- For NR operating bands with 15 kHz channel raster,

- Nominal Channel spacing = (BWE-UTRA\_Channel + BWNR\_Channel)/2+{-5kHz, 0kHz, 5kHz} for ∆FRaster equals to 15 kHz

- Nominal Channel spacing = (BWE-UTRA\_Channel + BWNR\_Channel)/2+{-10 kHz, 0 kHz, 10 kHz} for ∆FRaster equals to 30 kHz

where BWE-UTRA\_Channel and BWNR\_Channel are the channel bandwidths of the E-UTRA and NR carriers, ∆FRaster is the band dependent channel raster granularity defined in TS38.101-1[2]. The channel spacing can be adjusted depending on the channel raster to optimize performance in a particular deployment scenario.

For intra-band non-contiguous EN-DC the channel spacing between E-UTRA and NR carriers shall be larger than the nominal channel spacing defined in this clause.

## 5.5 Configuration

## 5.5A Configuration for CA

#### 5.5A.1 Inter-band CA configurations between FR1 and FR2

Table 5.5A.1-1: Inter-band CA configurations and bandwidth combinations sets between FR1 and FR2 (two bands)

| NR CA configuration | Uplink CA configuration | NR Band | SCS  (kHz) | 5  MHz | 10  MHz | 15  MHz | 20  MHz | 40  MHz | 50  MHz | 60  MHz | 80  MHz | 90  MHz | 100 MHz | 200 MHz | 400 MHz | Bandwidth combination set |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CA\_n8A-n258A | CA\_n8A-n258A | n8 | 15 | Yes | Yes | Yes | Yes |  |  |  |  |  |  |  |  | 0 |
| 30 |  | Yes | Yes | Yes |  |  |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  |
| n258 | 60 |  |  |  |  |  | Yes |  |  |  | Yes | Yes |  |
| 120 |  |  |  |  |  | Yes |  |  |  | Yes | Yes | Yes |
| CA\_n71A-n257A | - | n71 | 15 | Yes | Yes | Yes | Yes |  |  |  |  |  |  |  |  | 0 |
| 30 |  | Yes | Yes | Yes |  |  |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  |
| n257 | 60 |  |  |  |  |  | Yes |  |  |  | Yes | Yes |  |
| 120 |  |  |  |  |  | Yes |  |  |  | Yes | Yes | Yes |
| CA\_n77A-n257A | CA\_n77A-n257A | n77 | 15 |  | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  | 0 |
| 30 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| 60 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| n257 | 60 |  |  |  |  |  | Yes |  |  |  | Yes | Yes |  |
| 120 |  |  |  |  |  | Yes |  |  |  | Yes | Yes | Yes |
| CA\_n77A-n257D | CA\_n77A-n257A | n77 | 15 |  | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  | 0 |
| 30 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| 60 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| n257 |  | CA\_n257D | | | | | | | | | | | |
| CA\_n77A-n257E | CA\_n77A-n257A | n77 | 15 | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  | 0 |
| 30 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| 60 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| n257 |  | CA\_n257E | | | | | | | | | | | |
| CA\_n77A-n257F | CA\_n77A-n257A | n77 | 15 |  | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  | 0 |
| 30 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| 60 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| n257 |  | CA\_n257F | | | | | | | | | | | |
| CA\_n77C-n257A | CA\_n77A-n257A | n77 |  | CA\_n77C | | | | | | | | | | | | 0 |
| n257 | 60 |  |  |  |  |  | Yes |  |  |  | Yes | Yes |  |
| 120 |  |  |  |  |  | Yes |  |  |  | Yes | Yes | Yes |
| CA\_n77C-n257D | CA\_n77A-n257A | n77 |  | CA\_n77C | | | | | | | | | | | | 0 |
| n257 |  | CA\_n257D | | | | | | | | | | | |
| CA\_n77C-n257E | CA\_n77A-n257A | n77 |  | CA\_n77C | | | | | | | | | | | | 0 |
| n257 |  | CA\_n257E | | | | | | | | | | | |
| CA\_n77C-n257F | CA\_n77A-n257A | n77 |  | CA\_n77C | | | | | | | | | | | | 0 |
| n257 |  | CA\_n257F | | | | | | | | | | | |
| CA\_n78A-n257A | CA\_n78A-n257A | n78 | 15 |  | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  | 0 |
| 30 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| 60 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| n257 | 60 |  |  |  |  |  | Yes |  |  |  | Yes | Yes |  |
| 120 |  |  |  |  |  | Yes |  |  |  | Yes | Yes | Yes |
| CA\_n78A-n257D | CA\_n78A-n257A | n78 | 15 |  | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  | 0 |
| 30 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| 60 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| n257 |  | CA\_n257D | | | | | | | | | | | |
| CA\_n78A-n257E | CA\_n78A-n257A | n78 | 15 |  | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  | 0 |
| 30 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| 60 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| n257 |  | CA\_n257E | | | | | | | | | | | |
| CA\_n78A-n257F | CA\_n78A-n257A | n78 | 15 |  | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  | 0 |
| 30 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| 60 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |
| n257 |  | CA\_n257F | | | | | | | | | | | |
| CA\_n78C-n257A | CA\_n78A-n257A | n78 |  | CA\_n78C | | | | | | | | | | | | 0 |
| n257 | 60 |  |  |  |  |  | Yes |  |  |  | Yes | Yes |  |
| 120 |  |  |  |  |  | Yes |  |  |  | Yes | Yes | Yes |
| CA\_n78C-n257D | CA\_n78A-n257A | n78 |  | CA\_n78C | | | | | | | | | | | | 0 |
| n257 |  | CA\_n257D | | | | | | | | | | | |
| CA\_n78C-n257E | CA\_n78A-n257A | n78 |  | CA\_n78C | | | | | | | | | | | | 0 |
| n257 |  | CA\_n257E | | | | | | | | | | | |
| CA\_n78C-n257F | CA\_n78A-n257A | n78 |  | CA\_n78C | | | | | | | | | | | | 0 |
| n257 |  | CA\_n257F | | | | | | | | | | | |
| CA\_n79A-n257A | CA\_n79A-n257A | n79 | 15 |  |  |  |  | Yes | Yes |  |  |  |  |  |  | 0 |
| 30 |  |  |  |  | Yes | Yes | Yes | Yes |  | Yes |  |  |
| 60 |  |  |  |  | Yes | Yes | Yes | Yes |  | Yes |  |  |
| n257 | 60 |  |  |  |  |  | Yes |  |  |  | Yes | Yes |  |
| 120 |  |  |  |  |  | Yes |  |  |  | Yes | Yes | Yes |
| CA\_n79A-n257D | CA\_n79A-n257A | n79 | 15 |  |  |  |  | Yes | Yes |  |  |  |  |  |  | 0 |
| 30 |  |  |  |  | Yes | Yes | Yes | Yes |  | Yes |  |  |
| 60 |  |  |  |  | Yes | Yes | Yes | Yes |  | Yes |  |  |
| n257 |  | CA\_n257D | | | | | | | | | | | |
| CA\_n79A-n257E | CA\_n79A-n257A | n79 | 15 |  |  |  |  | Yes | Yes |  |  |  |  |  |  | 0 |
| 30 |  |  |  |  | Yes | Yes | Yes | Yes |  | Yes |  |  |
| 60 |  |  |  |  | Yes | Yes | Yes | Yes |  | Yes |  |  |
| n257 |  | CA\_n257E | | | | | | | | | | | |
| CA\_n79A-n257F | CA\_n79A-n257A | n79 | 15 |  |  |  |  | Yes | Yes |  |  |  |  |  |  | 0 |
| 30 |  |  |  |  | Yes | Yes | Yes | Yes |  | Yes |  |  |
| 60 |  |  |  |  | Yes | Yes | Yes | Yes |  | Yes |  |  |
| n257 |  | CA\_n257F | | | | | | | | | | | |
| CA\_n79C-n257A | CA\_n79A-n257A | n79 |  | See CA\_n79C in Table 5.5A.1-1 in TS 38.101-1 | | | | | | | | | | | | 0 |
| n257 | 60 |  |  |  |  |  | Yes |  |  |  | Yes | Yes |  |
| 120 |  |  |  |  |  | Yes |  |  |  | Yes | Yes | Yes |
| CA\_n79C-n257D | CA\_n79A-n257A | n79 |  | CA\_n79C | | | | | | | | | | | | 0 |
| n257 |  | CA\_n257D | | | | | | | | | | | |
| CA\_n79C-n257E | CA\_n79A-n257A | n79 |  | CA\_n79C | | | | | | | | | | | | 0 |
| n257 |  | CA\_n257E | | | | | | | | | | | |
| CA\_n79C-n257F | CA\_n79A-n257A | n79 |  | CA\_n79C | | | | | | | | | | | | 0 |
| n257 |  | CA\_n257F | | | | | | | | | | | |
| NOTE: The CA configurations are given in Table 5.5A.1-1 of either TS 38.101-1 or TS 38.101-2 where unless otherwise stated BCS0 is referred to. | | | | | | | | | | | | | | | | |

## 5.5B Configuration for DC

### 5.5B.1 General

The operating bands and bandwidth classes are specified for operation with EN-DC, NGEN-DC, NE-DC or NR-DC configured. The EN-DC, NGEN-DC or NE-DC band combinations include at least one E-UTRA operating band.

For EN-DC or NE-DC configurations indicated by column "Single Uplink allowed" (e.g., problematic band combinations as defined in TS 38.306 [11]) in tables in this clause the UE may indicate capability of not supporting simultaneous dual and triple uplink operation due to possible intermodulation interference to its own primary downlink channel bandwidth of PCell or PSCell if the intermodulation order is 2 or if the intermodulation order is 3 for the combinations when both operating bands are between 450 MHz – 960 MHz or between 1427 MHz – 2690 MHz.

In the case for EN-DC or NE-DC configurations listed in tables in this clause for which the intermodulation products caused by the dual and triple uplink operation fall into the receive band but do not interfere with its own primary downlink channel bandwidth of PCell or PSCell as defined in Annex I the UE is mandated to operate in dual and triple uplink mode. Single Uplink is also allowed for certain band combinations where intermodulation or reverse intermodulation products could create difficulty for meeting emission requirements.

For EN-DC combinations of order 3 or higher, "Single Uplink allowed" UL configurations captured in Table 5.5B.2-1, Table 5.5B.3-1, and Table 5.5B.4-1 apply.

If multiple UL DC configurations are listed for multiple DL DC configurations, valid uplink configurations are such that uplink does not have more carriers than downlink.

Non‑contiguous resource allocation and almost contiguous allocation are not applicable for E‑UTRA or NR carrier part of intra‑band EN‑DC configuration.

If the mandatory simultaneous Rx/Tx capability applies for a lower order DC configuration, when the applicable lower order DC configuration is a band pair in a higher order DC configuration, the mandatory simultaneous Rx/Tx capability also applies for the band pair in the higher order DC configuration.

### 5.5B.2 Intra-band contiguous EN-DC

Table 5.5B.2-1: Intra-band contiguous EN-DC configurations

|  |  |  |
| --- | --- | --- |
| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) | Single UL allowed |
| DC\_(n)41AA5  DC\_(n)41CA5  DC\_(n)41DA5 | DC\_(n)41AA | Yes3 |
| DC\_(n)41CA5  DC\_(n)41DA5 | DC\_41A\_n41A | Yes3 |
| DC\_(n)71AA2 | DC\_(n)71AA | No4 |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications.  NOTE 2: Requirements in this specification apply for NR SCS of 15 kHz only.  NOTE 3: Single UL allowed due to potential emission issues, not self-interference.  NOTE 4: For UE(s) supporting dynamic power sharing it is mandatory to do dual simultaneous UL. For UE(s) not supporting dynamic power sharing single UL is allowed.  NOTE 5: The minimum requirements only apply for non-simultaneous Tx/Rx between all carriers. | | |

### 5.5B.3 Intra-band non-contiguous EN-DC

Table 5.5B.3-1: Intra-band non-contiguous EN-DC configurations

|  |  |  |
| --- | --- | --- |
| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) | Single UL allowed |
| DC\_3A\_n3A | DC\_3A\_n3A2 | Yes2 |
| DC\_41A\_n41A3  DC\_41C\_n41A3  DC\_41D\_n41A3 | DC\_41A\_n41A | Yes4 |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications.  NOTE 2: Only single switched UL is supported in Rel.15  NOTE 3: The minimum requirements only apply for non-simultaneous Tx/Rx between all carriers.  NOTE 4: Single UL allowed due to potential emission issues, not self-interference. | | |

### 5.5B.4 Inter-band EN-DC within FR1

#### 5.5B.4.1 Inter-band EN-DC configurations within FR1 (two bands)

Table 5.5B.4.1-1: Inter-band EN-DC configurations within FR1 (two bands)

| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) | Single UL allowed |
| --- | --- | --- |
| DC\_1A\_n28A | DC\_1A\_n28A | No |
| DC\_1A\_n40A | DC\_1A\_n40A | No |
| DC\_1A\_n51A | DC\_1A\_n51A | No |
| DC\_1A\_n77A7  DC\_1A\_n77C7 | DC\_1A\_n77A | DC\_1\_n77 |
| DC\_1A\_n78A7  DC\_1A\_n78C7 | DC\_1A\_n78A | No |
| DC\_1A\_n79A7  DC\_1A\_n79C7 | DC\_1A\_n79A | No |
| DC\_2A\_n5A | DC\_2A\_n5A | No |
| DC\_2A\_n66A | DC\_2A\_n66A | DC\_2\_n66 |
| DC\_2A\_n71A | DC\_2A\_n71A | No |
| DC\_2A\_n78A | DC\_2A\_n78A | DC\_2\_n78 |
| DC\_3A\_n7A | DC\_3A\_n7A | No |
| DC\_3A\_n28A | DC\_3A\_n28A | No |
| DC\_3A\_n40A | DC\_3A\_n40A | No |
| DC\_3A\_n51A | DC\_3A\_n51A | No |
| DC\_3A\_n77A7  DC\_3A\_n77C7 | DC\_3A\_n77A | DC\_3\_n77 |
| DC\_3A\_n78A7  DC\_3A\_n78C7  DC\_3C\_n78A7 | DC\_3A\_n78A | DC\_3\_n78 |
| DC\_3A\_n79A7  DC\_3A\_n79C7 | DC\_3A\_n79A | No |
| DC\_5A\_n40A | DC\_5A\_n40A | No |
| DC\_5A\_n66A | DC\_5A\_n66A | DC\_5\_n66 |
| DC\_5A\_n78A7 | DC\_5A\_n78A | No |
| DC\_7A-7A\_n78A7 | DC\_7A\_n78A | No |
| DC\_7A\_n28A | DC\_7A\_n28A | No |
| DC\_7A\_n51A | DC\_7A\_n51A | No |
| DC\_7A\_n78A7 | DC\_7A\_n78A | No |
| DC\_7C\_n78A7 | DC\_7A\_n78A | No |
| DC\_8A\_n40A7 | DC\_8A\_n40A | No |
| DC\_8A\_n77A7 | DC\_8A\_n77A | No |
| DC\_8A\_n78A7 | DC\_8A\_n78A | No |
| DC\_8A\_n79A7 | DC\_8A\_n79A | No |
| DC\_11A\_n77A7 | DC\_11A\_n77A | No |
| DC\_11A\_n78A7 | DC\_11A\_n78A | No |
| DC\_11A\_n79A7 | DC\_11A\_n79A | No |
| DC\_12A\_n5A | DC\_12A\_n5A | No |
| DC\_12A\_n66A | DC\_12A\_n66A | No |
| DC\_18A\_n77A7 | DC\_18A\_n77A | No |
| DC\_18A\_n78A7 | DC\_18A\_n78A | No |
| DC\_18A\_n79A7 | DC\_18A\_n79A | No |
| DC\_19A\_n77A7  DC\_19A\_n77C7 | DC\_19A\_n77A | No |
| DC\_19A\_n78A7  DC\_19A\_n78C7 | DC\_19A\_n78A | No |
| DC\_19A\_n79A7  DC\_19A\_n79C7 | DC\_19A\_n79A | No |
| DC\_20A\_n8A | DC\_20A\_n8A | DC\_20\_n8 |
| DC\_20A\_n28A8,10,11 | DC\_20A\_n28A | No |
| DC\_20A\_n51A | DC\_20A\_n51A | No |
| DC\_20A\_n77A7 | DC\_20A\_n77A | No |
| DC\_20A\_n78A7 | DC\_20A\_n78A | No |
| DC\_21A\_n77A7  DC\_21A\_n77C7 | DC\_21A\_n77A | No |
| DC\_21A\_n78A7  DC\_21A\_n78C7 | DC\_21A\_n78A | No |
| DC\_21A\_n79A7  DC\_21A\_n79C7 | DC\_21A\_n79A | No |
| DC\_25A\_n41A | DC\_25A\_n41A | No |
| DC\_26A\_n41A | DC\_26A\_n41A | No |
| DC\_26A\_n77A7 | DC\_26A\_n77A | No |
| DC\_26A\_n78A7 | DC\_26A\_n78A | No |
| DC\_26A\_n79A7 | DC\_26A\_n79A | No |
| DC\_28A n51A | DC\_28A\_n51A | No |
| DC\_28A\_n77A7  DC\_28A\_n77C7 | DC\_28A\_n77A | No |
| DC\_28A\_n78A7  DC\_28A\_n78C7 | DC\_28A\_n78A | No |
| DC\_28A\_n79A7  DC\_28A\_n79C7 | DC\_28A\_n79A | No |
| DC\_30A\_n5A | DC\_30A\_n5A | No |
| DC\_30A\_n66A | DC\_30A\_n66A | No |
| DC\_38A\_n78A7 | DC\_38A\_n78A | No |
| DC\_39A\_n78A5,7 | DC\_39A\_n78A | No |
| DC\_39A\_n79A7 | DC\_39A\_n79A | No |
| DC\_40A\_n77A | DC\_40A\_n77A | No |
| DC\_41A\_n77A  DC\_41C\_n77A | DC\_41A\_n77A | No |
| DC\_41A\_n78A  DC\_41C\_n78A | DC\_41A\_n78A | No |
| DC\_41A\_n79A6,7  DC\_41C\_n79A6,7 | DC\_41A\_n79A | No |
| DC\_42A\_n51A | DC\_42A\_n51A | No |
| DC\_42A\_n77A3,4,9  DC\_42A\_n77C3,4,9  DC\_42C\_n77A3,4,9  DC\_42C\_n77C3,4,9  DC\_42D\_n77A3,4,9  DC\_42E\_n77A3,4,9 | N/A | N/A |
| DC\_42A\_n78A3,4,9  DC\_42A\_n78C3,4,9  DC\_42C\_n78A3,4,9  DC\_42C\_n78C3,4,9  DC\_42D\_n78A3,4,9  DC\_42E\_n78A3,4,9 | N/A | N/A |
| DC\_42A\_n79A9,15  DC\_42A\_n79C9,15  DC\_42C\_n79A9,15  DC\_42C\_n79C9,15  DC\_42D\_n79A9,15  DC\_42E\_n79A9,15 | N/A | N/A |
| DC\_46A\_n78A2  DC\_46C\_n78A2  DC\_46D\_n78A2  DC\_46E\_n78A2 | N/A | N/A |
| DC\_66A\_n5A | DC\_66A\_n5A | DC\_66\_n5 |
| DC\_66A\_n71A | DC\_66A\_n71A | No |
| DC\_66A\_n78A | DC\_66A\_n78A | No |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications.  NOTE 2: Restricted to E-UTRA operation when inter-band carrier aggregation is configured. The downlink operating band for Band 46 is paired with the uplink operating band (external E-UTRA band) of the carrier aggregation configuration that is supporting the configured Pcell.  NOTE 3: The minimum requirements apply only when there is non-simultaneous Tx/Rx operation between E-UTRA and NR carriers. This restriction applies also for these carriers when applicable EN-DC configuration is part of a higher order EN-DC configuration.  NOTE 4: The minimum requirements for intra-band non-contiguous EN-DC apply. When UE capability *interBandContiguousMRDC* is indicated, the minimum requirements for intra-band-contiguous EN-DC also should be met in addtion to intra-band non-contiguous EN-DC*.* The intra-band requirements also apply for these carriers when applicable EN-DC configuration is a subset of a higher order EN-DC configuration.  NOTE 5: The frequency range above 3600 MHz for Band n78 is not used in this combination.  NOTE 6: The frequency range below 2506 MHz for Band 41 is not used in this combination.  NOTE 7: Applicable for UE supporting inter-band EN-DC with mandatory simultaneous Rx/Tx capability.  NOTE 8: The frequency range in band n28 / 28 is restricted for this band combination to 703 - 733 MHz for the UL and 758-788 MHz for the DL. This restriction also apply for any band combinations when DC\_20\_n28/ DC\_28\_n20/ CA\_20-28/ CA\_n20-n28 is a subset of a higher order band combination.  NOTE 9: The combination is not used alone as fall back mode of other band combinations in which UL in Band 42 is not used.  NOTE 10: The minimum requirements apply for DL carriers with a maximum power spectral density imbalance of [6] dB. The power spectral density imbalance condition also applies for these carriers when applicable EN-DC configuration is a subset of a higher order EN-DC configuration  NOTE 11: The minimum requirements apply for synchronized DL carriers with a maximum receive time difference ≤ 3 usec. The requirements also apply for these carriers when applicable EN-DC configuration is a subset of a higher order EN-DC configuration  NOTE 12: Void.  NOTE 13: Void.  NOTE 14: Void.  NOTE 15: Simultaneous Rx/Tx capability does not apply for UEs supporting band 42 with a n77 implementation only. Same restrictions are applied to related higher order configurations. | | |

#### 5.5B.4.2 Inter-band EN-DC configurations within FR1 (three bands)

Table 5.5B.4.2-1: Inter-band EN-DC configurations within FR1 (three bands)

| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) |
| --- | --- |
| DC\_1A-3A\_n28A | DC\_1A\_n28A  DC\_3A\_n28A |
| DC\_1A-3A\_n77A5  DC\_1A-3A\_n77C5 | DC\_1A\_n77A  DC\_3A\_n77A |
| DC\_1A-3A\_n78A5  DC\_1A-3A\_n78C5  DC\_1A-3C\_n78A5 | DC\_1A\_n78A  DC\_3A\_n78A |
| DC\_1A-3A\_n79A5  DC\_1A-3A\_n79C5 | DC\_1A\_n79A  DC\_3A\_n79A |
| DC\_1A-5A\_n78A5 | DC\_1A\_n78A  DC\_5A\_n78A |
| DC\_1A-7A\_n28A5 | DC\_1A\_n28A  DC\_7A\_n28A |
| DC\_1A-7A\_n78A5 | DC\_1A\_n78A  DC\_7A\_n78A |
| DC\_1A-7A-7A\_n78A5 | DC\_1A\_n78A  DC\_7A\_n78A |
| DC\_1A-8A\_n78A5 | DC\_1A\_n78A  DC\_8A\_n78A |
| DC\_1A-18A\_n77A5 | DC\_1A\_n77A  DC\_18A\_n77A |
| DC\_1A-18A\_n78A5 | DC\_1A\_n78A  DC\_18A\_n78A |
| DC\_1A-18A\_n79A | DC\_1A\_n79A  DC\_18A\_n79A |
| DC\_1A-19A\_n77A5  DC\_1A-19A\_n77C5 | DC\_1A\_n77A  DC 19A\_n77A |
| DC\_1A-19A\_n78A5  DC\_1A-19A\_n78C5 | DC\_1A\_n78A  DC\_19A\_n78A |
| DC\_1A-19A\_n79A5  DC\_1A-19A\_n79C5 | DC\_1A\_n79A  DC\_19A\_n79A |
| DC\_1A-20A\_n28A6 | DC\_1A\_n28A  DC\_20A\_n28A |
| DC\_1A-20A\_n78A5 | DC\_1A\_n78A  DC\_20A\_n78A |
| DC\_1A-21A\_n77A5  DC\_1A-21A\_n77C5 | DC\_1A\_n77A  DC\_21A\_n77A |
| DC\_1A-21A\_n78A5  DC\_1A-21A\_n78C5 | DC\_1A\_n78A  DC\_21A\_n78A |
| DC\_1A-21A\_n79A5  DC\_1A-21A\_n79C5 | DC\_1A\_n79A  DC\_21A\_n79A |
| DC\_1A-28A\_n77A5  DC\_1A-28A\_n77C5 | DC\_1A\_n77A  DC\_28A\_n77A |
| DC\_1A-28A\_n78A5  DC\_1A-28A\_n78C5 | DC\_1A\_n78A  DC\_28A\_n78A |
| DC\_1A\_n28A-n78A5 | DC\_1A\_n28A  DC\_1A\_n78A |
| DC\_1A-28A\_n79A  DC\_1A-28A\_n79C | DC\_1A\_n79A  DC\_28A\_n79A |
| DC\_1A-41A\_n77A  DC\_1A-41C\_n77A | DC\_1A\_n77A  DC\_41A\_n77A |
| DC\_1A-41A\_n78A  DC\_1A-41C\_n78A | DC\_1A\_n78A  DC\_41A\_n78A |
| DC\_1A-41C\_n79A | DC\_1A\_n79A |
| DC\_1A-42A\_n77A  DC\_1A-42A\_n77C  DC\_1A-42C\_n77A  DC\_1A-42C\_n77C  DC\_1A-42D\_n77A  DC\_1A-42E\_n77A | DC\_1A\_n77A |
| DC\_1A-42A\_n78A  DC\_1A-42A\_n78C  DC\_1A-42C\_n78A  DC\_1A-42C\_n78C  DC\_1A-42D\_n78A  DC\_1A-42E\_n78A | DC\_1A\_n78A |
| DC\_1A-42A\_n79A  DC\_1A-42A\_n79C  DC\_1A-42C\_n79A  DC\_1A-42C\_n79C  DC\_1A-42D\_n79A  DC\_1A-42E\_n79A | DC\_1A\_n79A |
| DC\_1A\_n77A-n79A | DC\_1A\_n77A  DC\_1A\_n79A |
| DC\_1A\_n78A-n79A | DC\_1A\_n78A  DC\_1A\_n79A |
| DC\_1A\_SUL\_n78A-n84A5 | DC\_1A\_n78A,  DC\_1A\_n84A\_ULSUP-TDM\_n78A, |
| DC\_2A-5A\_n66A | DC\_2A\_n66A  DC\_5A\_n66A |
| DC\_2A-12A\_n66A | DC\_2A\_n66A  DC\_12A\_n66A |
| DC\_2A-30A\_n66A | DC\_2A\_n66A  DC\_30A\_n66A |
| DC\_2A-66A\_n71A | DC\_2A\_n71A  DC\_66A\_n71A |
| DC\_2A-(n)71AA | DC\_2A\_n71A  DC\_(n)71AA |
| DC\_3A\_n3A-n77A | DC\_3A\_n77A  DC\_3A\_n3A2 |
| DC\_3A\_n3A-n78A | DC\_3A\_n78A  DC\_3A\_n3A2 |
| DC\_3A-5A\_n78A5 | DC\_3A\_n78A  DC\_5A\_n78A |
| DC\_3A-7A\_n28A | DC\_3A\_n28A  DC\_7A\_n28A |
| DC\_3A-7A\_n78A5  DC\_3C-7A\_n78A5 | DC\_3A\_n78A  DC\_7A\_n78A |
| DC\_3A-7C\_n78A5  DC\_3C-7C\_n78A5 | DC\_3A\_n78A  DC\_7A\_n78A |
| DC\_3A-7A-7A\_n78A5 | DC\_3A\_n78A  DC\_7A\_n78A |
| DC\_3A-8A\_n78A | DC\_3A\_n78A  DC\_8A\_n78A |
| DC\_3A-19A\_n77A5  DC\_3A-19A\_n77C5 | DC\_3A\_n77A  DC\_19A\_n77A |
| DC\_3A-19A\_n78A5  DC\_3A-19A\_n78C5 | DC\_3A\_n78A  DC\_19A\_n78A |
| DC\_3A-19A\_n79A5  DC\_3A-19A\_n79C5 | DC\_3A\_n79A  DC\_19A\_n79A |
| DC\_3A-20A\_n28A5,6 | DC\_3A\_n28A  DC\_20A\_n28A |
| DC\_3A-20A\_n78A5  DC\_3C-20A\_n78A5 | DC\_3A\_n78A  DC\_20A\_n78A |
| DC\_3A-21A\_n77A5  DC\_3A-21A\_n77C5 | DC\_3A\_n77A  DC\_21A\_n77A |
| DC\_3A-21A\_n78A5  DC\_3A-21A\_n78C5 | DC\_3A\_n78A  DC\_21A\_n78A |
| DC\_3A-21A\_n79A5  DC\_3A-21A\_n79C5 | DC\_3A\_n79A  DC\_21A\_n79A |
| DC\_3A-28A\_n77A  DC\_3A-28A\_n77C | DC\_3A\_n77A  DC\_28A\_n77A |
| DC\_3A-28A\_n78A5  DC\_3A-28A\_n78C5 | DC\_3A\_n78A  DC\_28A\_n78A |
| DC\_3A\_n28A-n78A5 | DC\_3A\_n28A  DC\_3A\_n78A |
| DC\_3A-28A\_n79A  DC\_3A-28A\_n79C | DC\_3A\_n79A  DC\_28A\_n79A |
| DC\_3A-38A\_n78A | DC\_3A\_n78A |
| DC\_3A-41A\_n78A | DC\_3A\_n78A  DC\_41A\_n78A |
| DC\_3A-42A\_n77A  DC\_3A-42A\_n77C  DC\_3A-42C\_n77A  DC\_3A-42C\_n77C  DC\_3A-42D\_n77A  DC\_3A-42E\_n77A | DC\_3A\_n77A |
| DC\_3A-42A\_n78A  DC\_3A-42A\_n78C  DC\_3A-42C\_n78A  DC\_3A-42C\_n78C  DC\_3A-42D\_n78A  DC\_3A-42E\_n78A | DC\_3A\_n78A |
| DC\_3A-42A\_n79A  DC\_3A-42A\_n79C  DC\_3A-42C\_n79A  DC\_3A-42C\_n79C  DC\_3A-42D\_n79A  DC\_3A-42E\_n79A | DC\_3A\_n79A |
| DC\_3A\_n77A-n79A | DC\_3A\_n77A  DC\_3A\_n79A |
| DC\_3A\_n78A-n79A | DC\_3A\_n78A  DC\_3A\_n79A |
| DC\_3A\_SUL\_n78A-n80A5 | DC\_3A\_n78A  DC\_3A\_n80A\_ULSUP-TDM\_n78A |
| DC\_3A\_SUL\_n78A-n82A5 | DC\_3A\_n78A  DC\_3A\_n82A |
| DC\_3A\_SUL\_n79A-n80A5 | DC\_3A\_n79A,  DC\_3A\_n80A\_ULSUP-TDM\_n79A |
| DC\_5A-7A\_n78A | DC\_5A\_n78A  DC\_7A\_n78A |
| DC\_5A-7A-7A\_n78A | DC\_5A\_n78A  DC\_7A\_n78A |
| DC\_5A-30A\_n66A | DC\_5A\_n66A  DC\_30A\_n66A |
| DC\_7A-20A\_n28A6 | DC\_7A\_n28A  DC\_20A\_n28A |
| DC\_7A-20A\_n78A5 | DC\_7A\_n78A  DC\_20A\_n78A |
| DC\_7A-28A\_n78A5 | DC\_7A\_n78A  DC\_28A\_n78A |
| DC\_7C-28A\_n78A5 | DC\_7A\_n78A  DC\_28A\_n78A |
| DC\_7A\_n28A-n78A5 | DC\_7A\_n28A,  DC\_7A\_n78A |
| DC\_7A-46A\_n78A3  DC\_7A-46C\_n78A3  DC\_7A-46D\_n78A3  DC\_7A-46E\_n78A3 | DC\_7A\_n78A |
| DC\_8A\_SUL\_n78A-n81A5 | DC\_8A\_n78A,  DC\_8A\_n81A\_ULSUP-TDM\_n78A, |
| DC\_8A\_SUL\_n79A-n81A5 | DC\_8A\_n79A,  DC\_8A\_n81A\_ULSUP-TDM\_n79A, |
| DC\_12A-30A\_n66A | DC\_12A\_n66A  DC\_30A\_n66A |
| DC\_18A-28A\_n77A5 | DC\_18A\_n77A  DC\_28A\_n77A |
| DC\_18A-28A\_n78A5 | DC\_18A\_n78A  DC\_28A\_n78A |
| DC\_18A-28A\_n79A5 | DC\_18A\_n79A  DC\_28A\_n79A |
| DC\_19A-21A\_n78A5  DC\_19A-21A\_n78C5 | DC\_19A\_n78A  DC\_21A\_n78A |
| DC\_19A-21A\_n79A5  DC\_19A-21A\_n79C5 | DC\_19A\_n79A  DC\_21A\_n79A |
| DC\_19A-21A\_n77A5  DC\_19A-21A\_n77C5 | DC\_19A\_n77A  DC\_21A\_n77A |
| DC\_19A-42A\_n77A  DC\_19A-42A\_n77C  DC\_19A-42C\_n77A  DC\_19A-42C\_n77C | DC\_19A\_n77A |
| DC\_19A-42A\_n78A  DC\_19A-42A\_n78C  DC\_19A-42C\_n78A  DC\_19A-42C\_n78C | DC\_19A\_n78A |
| DC\_19A-42A\_n79A  DC\_19A-42A\_n79C  DC\_19A-42C\_n79A  DC\_19A-42C\_n79C | DC\_19A\_n79A |
| DC\_19A\_n77A-n79A | DC\_19A\_n77A  DC\_19A\_n79A |
| DC\_19A\_n78A-n79A | DC\_19A\_n78A  DC\_19A\_n79A |
| DC\_20A\_n8A-n75A6 | DC\_20A\_n8A |
| DC\_20A\_n28A-n75A6 | DC\_20A\_n28A |
| DC\_20A\_n28A-n78A5,6 | DC\_20A\_n28A  DC\_20A\_n78A |
| DC\_20A\_n75A-n78A5 | DC\_20A\_n78A |
| DC\_20A\_n76A-n78A5 | DC\_20A\_n78A |
| DC\_20A\_SUL\_n78A-n82A5 | DC\_20A\_n78A  DC\_20A\_n82A\_ULSUP-TDM\_n78A |
| DC\_20A\_SUL\_n78A-n83A5 | DC\_20A\_n78A  DC\_20A\_n83A |
| DC\_21A-28A\_n77A  DC\_21A-28A\_n77C | DC\_21A\_n77A  DC\_28A\_n77A |
| DC\_21A-28A\_n78A  DC\_21A-28A\_n78C | DC\_21A\_n78A  DC\_28A\_n78A |
| DC\_21A-28A\_n79A  DC\_21A-28A\_n79C | DC\_21A\_n79A  DC\_28A\_n79A |
| DC\_21A-42A\_n77A  DC\_21A-42A\_n77C  DC\_21A-42C\_n77A  DC\_21A-42C\_n77C | DC\_21A\_n77A |
| DC\_21A-42A\_n78A  DC\_21A-42A\_n78C  DC\_21A-42C\_n78A  DC\_21A-42C\_n78C | DC\_21A\_n78A |
| DC\_21A-42A\_n79A  DC\_21A-42A\_n79C  DC\_21A-42C\_n79A  DC\_21A-42C\_n79C | DC\_21A\_n79A |
| DC\_21A\_n77A-n79A | DC\_21A\_n77A  DC\_21A\_n79A |
| DC\_21A\_n78A-n79A | DC\_21A\_n78A  DC\_21A\_n79A |
| DC\_28A-42A\_n77A  DC\_28A-42A\_n77C  DC\_28A-42C\_n77A | DC\_28A\_n77A |
| DC\_28A-42A\_n78A  DC\_28A-42A\_n78C  DC\_28A-42C\_n78A | DC\_28A\_n78A |
| DC\_28A-42A\_n79A  DC\_28A-42A\_n79C  DC\_28A-42C\_n79A | DC\_28A\_n79A |
| DC\_28A\_SUL\_n78A-n83A5 | DC\_28A\_n78A, DC\_28A\_n83A\_ULSUP-TDM\_n78A, |
| DC\_41A-42A\_n77A  DC\_41A-42C\_n77A  DC\_41C-42A\_n77A  DC\_41C-42C\_n77A | DC\_41A\_n77A |
| DC\_41A-42A\_n78A DC\_41A-42C\_n78A  DC\_41C-42A\_n78A  DC\_41C-42C\_n78A | DC\_41A\_n78A |
| DC\_41A-42A\_n79A  DC\_41A-42C\_n79A  DC\_41C-42A\_n79A  DC\_41C-42C\_n79A | DC\_41A\_n79A |
| DC\_66A\_(n)71AA | DC\_66A\_n71A  DC\_(n)71AA |
| DC\_66A\_SUL\_n78A-n86A5 | DC\_66A\_n78A  DC\_66A\_n86A\_ULSUP-TDM\_n78A |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications.  NOTE 2: Only single switched UL is supported in Rel-15  NOTE 3: Restricted to E-UTRA operation when inter-band carrier aggregation is configured. The downlink operating band for Band 46 is paired with the uplink operating band (external E-UTRA band) of the carrier aggregation configuration that is supporting the configured Pcell.  NOTE 4: If a UE is configured with both NR UL and NR SUL carriers in a cell, the switching time between NR UL carrier and NR SUL carrier can be up to 140us and placed in SUL resources.  NOTE 5: Applicable for UE supporting inter-band EN-DC with mandatory simultaneous Rx/Tx capability  NOTE 6: The frequency range in band n28 is restricted for this band combination to 703-733 MHz for the UL and 758-788 MHz for the DL. | | |

#### 5.5B.4.3 Inter-band EN-DC configurations within FR1 (four bands)

Table 5.5B.4.3-1: Inter-band EN-DC configurations within FR1 (four bands)

| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) |
| --- | --- |
| DC\_1A-3A-5A\_n78A2 | DC\_1A\_n78A  DC\_3A\_n78A  DC\_5A\_n78A |
| DC\_1A-3A-7A\_n28A | DC\_1A\_n28A  DC\_3A\_n28A  DC\_7A\_n28A |
| DC\_1A-3A-7A\_n78A2  DC\_1A-3C-7A\_n78A2 | DC\_1A\_n78A  DC\_3A\_n78A  DC\_7A\_n78A |
| DC\_1A-3A-7A-7A\_n78A2 | DC\_1A\_n78A  DC\_3A\_n78A  DC\_7A\_n78A |
| DC\_1A-3A-8A\_n78A2 | DC\_1A\_n78A  DC\_3A\_n78A  DC\_8A\_n78A |
| DC\_1A-3A-19A\_n77A2  DC\_1A-3A-19A\_n77C2 | DC\_1A\_n77A  DC\_3A\_n77A  DC\_19A\_n77A |
| DC\_1A-3A-19A\_n78A2  DC\_1A-3A-19A\_n78C2 | DC\_1A\_n78A  DC\_3A\_n78A  DC\_19A\_n78A |
| DC\_1A-3A-19A\_n79A2  DC\_1A-3A-19A\_n79C2 | DC\_1A\_n79A  DC\_3A\_n79A  DC\_19A\_n79A |
| DC\_1A-3A-20A\_n28A3 | DC\_1A\_n28A  DC\_3A\_n28A  DC\_20A\_n28A |
| DC\_1A-3A-20A\_n78A2 | DC\_1A\_n78A  DC\_3A\_n78A  DC\_20A\_n78A |
| DC\_1A-3A-21A\_n77A2  DC\_1A-3A-21A\_n77C2 | DC\_1A\_n77A  DC\_3A\_n77A  DC\_21A\_n77A |
| DC\_1A-3A-21A\_n78A2  DC\_1A-3A-21A\_n78C2 | DC\_1A\_n78A  DC\_3A\_n78A  DC\_21A\_n78A |
| DC\_1A-3A-21A\_n79A2  DC\_1A-3A-21A\_n79C2 | DC\_1A\_n79A  DC\_3A\_n79A  DC\_21A\_n79A |
| DC\_1A-3A-28A\_n77A2 | DC\_1A\_n77A  DC\_3A\_n77A  DC\_28A\_n77A |
| DC\_1A-3A-28A\_n78A2 | DC\_1A\_n78A  DC\_3A\_n78A  DC\_28A\_n78A |
| DC\_1A-3A-28A\_n79A2 | DC\_1A\_n79A  DC\_3A\_n79A  DC\_28A\_n79A |
| DC\_1A-3A\_n28A-n78A2 | DC\_1A\_n28A  DC\_1A\_n78A  DC\_3A\_n28A  DC\_3A\_n78A |
| DC\_1A-3A-42A\_n77A  DC\_1A-3A-42A\_n77C  DC\_1A-3A-42C\_n77A  DC\_1A-3A-42C\_n77C | DC\_1A\_n77A  DC\_3A\_n77A |
| DC\_1A-3A-42A\_n78A  DC\_1A-3A-42A\_n78C  DC\_1A-3A-42C\_n78A  DC\_1A-3A-42C\_n78C | DC\_1A\_n78A  DC\_3A\_n78A |
| DC\_1A-3A-42A\_n79A  DC\_1A-3A-42A\_n79C  DC\_1A-3A-42C\_n79A  DC\_1A-3A-42C\_n79C | DC\_1A\_n79A  DC\_3A\_n79A |
| DC\_1A-5A-7A\_n78A | DC\_1A\_n78A  DC\_5A\_n78A  DC\_7A\_n78A |
| DC\_1A-5A-7A-7A\_n78A | DC\_1A\_n78A  DC\_5A\_n78A  DC\_7A\_n78A |
| DC\_1A-7A-20A\_n28A3 | DC\_1A\_n28A  DC\_7A\_n28A  DC\_20A\_n28A |
| DC\_1A-7A-20A\_n78A2 | DC\_1A\_n78A  DC\_7A\_n78A  DC\_20A\_n78A |
| DC\_1A-7A\_n28A-n78A2 | DC\_1A\_n28A  DC\_1A\_n78A  DC\_7A\_n28A  DC\_7A\_n78A |
| DC\_1A-18A-28A\_n77A | DC\_1A\_n77A  DC\_18A\_n77A  DC\_28A\_n77A |
| DC\_1A-18A-28A\_n78A | DC\_1A\_n78A  DC\_18A\_n78A  DC\_28A\_n78A |
| DC\_1A-18A-28A\_n79A2 | DC\_1A\_n79A  DC\_18A\_n79A  DC\_28A\_n79A |
| DC\_1A-19A-21A\_n77A  DC\_1A-19A-21A\_n77C | DC\_1A\_n77A  DC\_19A\_n77A  DC\_21A\_n77A |
| DC\_1A-19A-21A\_n78A  DC\_1A-19A-21A\_n78C | DC\_1A\_n78A  DC\_19A\_n78A  DC\_21A\_n78A |
| DC\_1A-19A-21A\_n79A  DC\_1A-19A-21A\_n79C | DC\_1A\_n79A  DC\_19A\_n79A  DC\_21A\_n79A |
| DC\_1A-19A-42A\_n77A  DC\_1A-19A-42A\_n77C  DC\_1A-19A-42C\_n77A  DC\_1A-19A-42C\_n77C | DC\_1A\_n77A  DC\_19A\_n77A |
| DC\_1A-19A-42A\_n78A  DC\_1A-19A-42A\_n78C  DC\_1A-19A-42C\_n78A  DC\_1A-19A-42C\_n78C | DC\_1A\_n78A  DC\_19A\_n78A |
| DC\_1A-19A-42A\_n79A  DC\_1A-19A-42A\_n79C  DC\_1A-19A-42C\_n79A  DC\_1A-19A-42C\_n79C | DC\_1A\_n79A  DC\_19A\_n79A |
| DC\_1A-20A\_n28A-n78A2,3 | DC\_1A\_n28A  DC\_1A\_n78A  DC\_20A\_n28A  DC\_20A\_n78A |
| DC\_1A-21A-28A\_n77A2 | DC\_1A\_n77A  DC\_21A\_n77A  DC\_28A\_n77A |
| DC\_1A-21A-28A\_n78A2 | DC\_1A\_n78A  DC\_21A\_n78A  DC\_28A\_n78A |
| DC\_1A-21A-28A\_n79A2 | DC\_1A\_n79A  DC\_21A\_n79A  DC\_28A\_n79A |
| DC\_1A-21A-42A\_n77A  DC\_1A-21A-42A\_n77C  DC\_1A-21A-42C\_n77A  DC\_1A-21A-42C\_n77C | DC\_1A\_n77A  DC\_21A\_n77A |
| DC\_1A-21A-42A\_n78A  DC\_1A-21A-42A\_n78C  DC\_1A-21A-42C\_n78A  DC\_1A-21A-42C\_n78C | DC\_1A\_n78A  DC\_21A\_n78A |
| DC\_1A-21A-42A\_n79A  DC\_1A-21A-42A\_n79C  DC\_1A-21A-42C\_n79A  DC\_1A-21A-42C\_n79C | DC\_1A\_n79A  DC\_21A\_n79A |
| DC\_1A-28A-42A\_n77A  DC\_1A-28A-42C\_n77A | DC\_1A\_n77A  DC\_28A\_n77A |
| DC\_1A-28A-42A\_n78A  DC\_1A-28A-42C\_n78A | DC\_1A\_n78A  DC\_28A\_n78A |
| DC\_1A-28A-42A\_n79A  DC\_1A-28A-42C\_n79A | DC\_1A\_n79A  DC\_28A\_n79A |
| DC\_1A-41A-42A\_n77A  DC\_1A-41A-42C\_n77A  DC\_1A-41C-42A\_n77A  DC\_1A-41C-42C\_n77A | DC\_1A\_n77A  DC\_41A\_n77A |
| DC\_1A-41A-42A\_n78A  DC\_1A-41A-42C\_n78A  DC\_1A-41C-42A\_n78A  DC\_1A-41C-42C\_n78A | DC\_1A\_n78A  DC\_41A\_n78A |
| DC\_1A-41A-42A\_n79A  DC\_1A-41A-42C\_n79A  DC\_1A-41C-42A\_n79A  DC\_1A-41C-42C\_n79A | DC\_1A\_n79A  DC\_41A\_n79A |
| DC\_2A-66A-(n)71AA | DC\_2A\_n71A  DC\_66A\_n71A  DC\_(n)71AA |
| DC\_3A-5A-7A\_n78A | DC\_3A\_n78A  DC\_5A\_n78A  DC\_7A\_n78A |
| DC\_3A-5A-7A-7A\_n78A | DC\_3A\_n78A  DC\_5A\_n78A  DC\_7A\_n78A |
| DC\_3A-7A-20A\_n28A3 | DC\_3A\_n28A  DC\_7A\_n28A  DC\_20A\_n28A |
| DC\_3A-7A-20A\_n78A2 | DC\_3A\_n78A  DC\_20A\_n78A  DC\_7A\_n78A |
| DC\_3A-7A-28A\_n78A2  DC\_3A-7C-28A\_n78A2 | DC\_3A\_n78A  DC\_7A\_n78A  DC\_28A\_n78A |
| DC\_3A-7A\_n28A-n78A2 | DC\_3A\_n28A  DC\_3A\_n78A  DC\_7A\_n28A  DC\_7A\_n78A |
| DC\_3A-19A-21A\_n77A2  DC\_3A-19A-21A\_n77C2 | DC\_3A\_n77A  DC\_19A\_n77A  DC\_21A\_n77A |
| DC\_3A-19A-21A\_n78A2  DC\_3A-19A-21A\_n78C2 | DC\_3A\_n78A  DC\_19A\_n78A  DC\_21A\_n78A |
| DC\_3A-19A-21A\_n79A2  DC\_3A-19A-21A\_n79C2 | DC\_3A\_n79A  DC\_19A\_n79A  DC\_21A\_n79A |
| DC\_3A-19A-42A\_n77A  DC\_3A-19A-42A\_n77C  DC\_3A-19A-42C\_n77A  DC\_3A-19A-42C\_n77C | DC\_3A\_n77A  DC\_19A\_n77A |
| DC\_3A-19A-42A\_n78A  DC\_3A-19A-42A\_n78C  DC\_3A-19A-42C\_n78A  DC\_3A-19A-42C\_n78C | DC\_3A\_n78A  DC\_19A\_n78A |
| DC\_3A-19A-42A\_n79A2  DC\_3A-19A-42A\_n79C2  DC\_3A-19A-42C\_n79A2  DC\_3A-19A-42C\_n79C2 | DC\_3A\_n79A  DC\_19A\_n79A |
| DC\_3A-20A\_n28A-n78A2,3 | DC\_3A\_n28A  DC\_3A\_n78A  DC\_20A\_n28A  DC\_20A\_n78A |
| DC\_3A-21A-42A\_n77A  DC\_3A-21A-42A\_n77C  DC\_3A-21A-42C\_n77A  DC\_3A-21A-42C\_n77C | DC\_3A\_n77A  DC\_21A\_n77A |
| DC\_3A-21A-42A\_n78A  DC\_3A-21A-42A\_n78C  DC\_3A-21A-42C\_n78A  DC\_3A-21A-42C\_n78C | DC\_3A\_n78A  DC\_21A\_n78A |
| DC\_3A-21A-42A\_n79A  DC\_3A-21A-42A\_n79C  DC\_3A-21A-42C\_n79A  DC\_3A-21A-42C\_n79C | DC\_3A\_n79A  DC\_21A\_n79A |
| DC\_3A-28A-42A\_n77A  DC\_3A-28A-42C\_n77A | DC\_3A\_n77A  DC\_28A\_n77A |
| DC\_3A-28A-42A\_n78A  DC\_3A-28A-42C\_n78A | DC\_3A\_n78A  DC\_28A\_n78A |
| DC\_3A-28A-42A\_n79A  DC\_3A-28A-42C\_n79A | DC\_3A\_n79A  DC\_28A\_n79A |
| DC\_7A-20A\_n28A-n78A2,3 | DC\_7A\_n28A  DC\_7A\_n78A  DC\_20A\_n28A  DC\_20A\_n78A |
| DC\_19A-21A-42A\_n77A  DC\_19A-21A-42A\_n77C  DC\_19A-21A-42C\_n77A  DC\_19A-21A-42C\_n77C | DC\_19A\_n77A  DC\_21A\_n77A |
| DC\_19A-21A-42A\_n78A  DC\_19A-21A-42A\_n78C  DC\_19A-21A-42C\_n78A  DC\_19A-21A-42C\_n78C | DC\_19A\_n78A  DC\_21A\_n78A |
| DC\_19A-21A-42A\_n79A  DC\_19A-21A-42A\_n79C  DC\_19A-21A-42C\_n79A  DC\_19A-21A-42C\_n79C | DC\_19A\_n79A  DC\_21A\_n79A |
| DC\_21A-28A-42A\_n77A  DC\_21A-28A-42C\_n77A | DC\_21A\_n77A  DC\_28A\_n77A |
| DC\_21A-28A-42A\_n78A  DC\_21A-28A-42C\_n78A | DC\_21A\_n78A  DC\_28A\_n78A |
| DC\_21A-28A-42A\_n79A  DC\_21A-28A-42C\_n79A | DC\_21A\_n79A  DC\_28A\_n79A |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications.  NOTE 2: Applicable for UE supporting inter-band EN-DC with mandatory simultaneous Rx/Tx capability  NOTE 3: The frequency range in band n28 is restricted for this band combination to 703-733 MHz for the UL and 758-788 MHz for the DL. | |

#### 5.5B.4.4 Inter-band EN-DC configurations within FR1 (five bands)

Table 5.5B.4.4-1: Inter-band EN-DC configurations within FR1 (five bands)

| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) |
| --- | --- |
| DC\_1A-3A-5A-7A\_n78A | DC\_1A\_n78A  DC\_3A\_n78A  DC\_5A\_n78A  DC\_7A\_n78A |
| DC\_1A-3A-5A-7A-7A\_n78A | DC\_1A\_n78A  DC\_3A\_n78A  DC\_5A\_n78A  DC\_7A\_n78A |
| DC\_1A-3A-7A-20A\_n28A3 | DC\_1A\_n28A  DC\_3A\_n28A  DC\_7A\_n28A  DC\_20A\_n28A |
| DC\_1A-3A-7A-20A\_n78A2 | DC\_1A\_n78A  DC\_3A\_n78A  DC\_7A\_n78A  DC\_20A\_n78A |
| DC\_1A-3A-7A\_n28A-n78A2 | DC\_1A\_n28A  DC\_1A\_n78A  DC\_3A\_n28A  DC\_3A\_n78A  DC\_7A\_n28A  DC\_7A\_n78A |
| DC\_1A-3A-19A-21A\_n77A2  DC\_1A-3A-19A-21A\_n77C2 | DC\_1A\_n77A  DC\_3A\_n77A  DC\_19A\_n77A  DC\_21A\_n77A |
| DC\_1A-3A-19A-21A\_n78A2  DC\_1A-3A-19A-21A\_n78C2 | DC\_1A\_n78A  DC\_3A\_n78A  DC\_19A\_n78A  DC\_21A\_n78A |
| DC\_1A-3A-19A-21A\_n79A2  DC\_1A-3A-19A-21A\_n79C2 | DC\_1A\_n79A  DC\_3A\_n79A  DC\_19A\_n79A  DC\_21A\_n79A |
| DC\_1A-3A-19A-42A\_n77A  DC\_1A-3A-19A-42A\_n77C  DC\_1A-3A-19A-42C\_n77A  DC\_1A-3A-19A-42C\_n77C | DC\_1A\_n77A  DC\_3A\_n77A  DC\_19A\_n77A |
| DC\_1A-3A-19A-42A\_n78A  DC\_1A-3A-19A-42A\_n78C  DC\_1A-3A-19A-42C\_n78A  DC\_1A-3A-19A-42C\_n78C | DC\_1A\_n78A  DC\_3A\_n78A  DC\_19A\_n78A |
| DC\_1A-3A-19A-42A\_n79A  DC\_1A-3A-19A-42A\_n79C  DC\_1A-3A-19A-42C\_n79A  DC\_1A-3A-19A-42C\_n79C | DC\_1A\_n79A  DC\_3A\_n79A  DC\_19A\_n79A |
| DC\_1A-3A-20A\_n28A-n78A2,3 | DC\_1A\_n28A  DC\_1A\_n78A  DC\_3A\_n28A  DC\_3A\_n78A  DC\_20A\_n28A  DC\_20A\_n78A |
| DC\_1A-3A-21A-42A\_n77A  DC\_1A-3A-21A-42A\_n77C  DC\_1A-3A-21A-42C\_n77A  DC\_1A-3A-21A-42C\_n77C | DC\_1A\_n77A  DC\_3A\_n77A  DC\_21A\_n77A |
| DC\_1A-3A-21A-42A\_n78A  DC\_1A-3A-21A-42A\_n78C  DC\_1A-3A-21A-42C\_n78A  DC\_1A-3A-21A-42C\_n78C | DC\_1A\_n78A  DC\_3A\_n78A  DC\_21A\_n78A |
| DC\_1A-3A-21A-42A\_n79A  DC\_1A-3A-21A-42A\_n79C  DC\_1A-3A-21A-42C\_n79A  DC\_1A-3A-21A-42C\_n79C | DC\_1A\_n79A  DC\_3A\_n79A  DC\_21A\_n79A |
| DC\_1A-3A-28A-42A\_n77A  DC\_1A-3A-28A-42C\_n77A | DC\_1A\_n77A  DC\_3A\_n77A  DC\_28A\_n77A |
| DC\_1A-3A-28A-42A\_n78A  DC\_1A-3A-28A-42C\_n78A | DC\_1A\_n78A  DC\_3A\_n78A  DC\_28A\_n78A |
| DC\_1A-3A-28A-42A\_n79A  DC\_1A-3A-28A-42C\_n79A | DC\_1A\_n79A  DC\_3A\_n79A  DC\_28A\_n79A |
| DC\_1A-7A-20A\_n28A-n78A2,3 | DC\_1A\_n28A  DC\_1A\_n78A  DC\_7A\_n28A  DC\_7A\_n78A  DC\_20A\_n28A  DC\_20A\_n78A |
| DC\_1A-19A-21A-42A\_n77A  DC\_1A-19A-21A-42A\_n77C  DC\_1A-19A-21A-42C\_n77A  DC\_1A-19A-21A-42C\_n77C | DC\_1A\_n77A  DC\_19A\_n77A  DC\_21A\_n77A |
| DC\_1A-19A-21A-42A\_n78A  DC\_1A-19A-21A-42A\_n78C  DC\_1A-19A-21A-42C\_n78A  DC\_1A-19A-21A-42C\_n78C | DC\_1A\_n78A  DC\_19A\_n78A  DC\_21A\_n78A |
| DC\_1A-19A-21A-42A\_n79A  DC\_1A-19A-21A-42A\_n79C  DC\_1A-19A-21A-42C\_n79A  DC\_1A-19A-21A-42C\_n79C | DC\_1A\_n79A  DC\_19A\_n79A  DC\_21A\_n79A |
| DC\_1A-21A-28A-42A\_n77A  DC\_1A-21A-28A-42C\_n77A | DC\_1A\_n77A  DC\_21A\_n77A  DC\_28A\_n77A |
| DC\_1A-21A-28A-42A\_n78A  DC\_1A-21A-28A-42C\_n78A | DC\_1A\_n78A  DC\_21A\_n78A  DC\_28A\_n78A |
| DC\_1A-21A-28A-42A\_n79A  DC\_1A-21A-28A-42C\_n79A | DC\_1A\_n79A  DC\_21A\_n79A  DC\_28A\_n79A |
| DC\_3A-7A-20A\_n28A-n78A2,3 | DC\_3A\_n28A  DC\_3A\_n78A  DC\_7A\_n28A  DC\_7A\_n78A  DC\_20A\_n28A  DC\_20A\_n78A |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications.  NOTE 2: Applicable for UE supporting inter-band EN-DC with mandatory simultaneous Rx/Tx capability  NOTE 3: The frequency range in band n28 is restricted for this band combination to 703-733 MHz for the UL and 758-788 MHz for the DL | |

#### 5.5B.4.5 Inter-band EN-DC configurations within FR1 (six bands)

Table 5.5B.4.5-1: Inter-band EN-DC configurations within FR1 (six bands)

|  |  |
| --- | --- |
| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) |
| DC\_1A-3A-7A-20A\_n28A-n78A2,3 | DC\_1A\_n28A  DC\_1A\_n78A  DC\_3A\_n28A  DC\_3A\_n78A  DC\_7A\_n28A  DC\_7A\_n78A  DC\_20A\_n28A  DC\_20A\_n78A |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications.  NOTE 2: Applicable for UE supporting inter-band EN-DC with mandatory simultaneous Rx/Tx capability  NOTE 3: The frequency range in band n28 is restricted for this band combination to 703-733 MHz for the UL and 758-788 MHz for the DL | |

### 5.5B.4a Inter-band NE-DC within FR1

#### 5.5B.4a.1 Inter-band NE-DC configurations within FR1 (two bands)

Table 5.5B.4a.1-1: Inter-band NE-DC configurations within FR1 (two bands)

|  |  |  |
| --- | --- | --- |
| NE-DC  configuration | Uplink NE-DC  configuration  (NOTE 1) | Single UL allowed |
| DC\_n1A\_28A | DC\_n1A\_28A | No |
| NOTE 1: Uplink NE-DC configurations are the configurations supported by the present release of specifications. | | |

### 5.5B.5 Inter-band EN-DC including FR2

#### 5.5B.5.1 Inter-band EN-DC configurations including FR2 (two bands)

Table 5.5B.5.1-1: Inter-band EN-DC configurations including FR2 (two bands)

| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) |
| --- | --- |
| DC\_1A\_n257A  DC\_1A\_n257D DC\_1A\_n257E DC\_1A\_n257F | DC\_1A\_n257A |
| DC\_2A\_n257A  DC\_2C\_n257A | DC\_2A\_n257A |
| DC\_2A\_n257(2A) | DC\_2A\_n257A |
| DC\_2A-2A\_n257A | DC\_2A\_n257A |
| DC\_2A\_n260A  DC\_2A\_n260G  DC\_2A\_n260H  DC\_2A\_n260I  DC\_2A\_n260J  DC\_2A\_n260K  DC\_2A\_n260L  DC\_2A\_n260M  DC\_2C\_n260A | DC\_2A\_n260A |
| DC\_2A\_n260(2A) | DC\_2A\_n260 |
| DC\_2A-2A\_n260A  DC\_2A-2A\_n260G  DC\_2A-2A\_n260H  DC\_2A-2A\_n260I  DC\_2A-2A\_n260J  DC\_2A-2A\_n260K  DC\_2A-2A\_n260L  DC\_2A-2A\_n260M | DC\_2A\_n260A |
| DC\_3A\_n257A  DC\_3A\_n257D  DC\_3A\_n257E  DC\_3A\_n257F | DC\_3A\_n257A |
| DC\_3A\_n258A | DC\_3A\_n258A |
| DC\_5A\_n257A  DC\_5B\_n257A | DC\_5A\_n257A  DC\_5B\_n257A |
| DC\_5A-5A\_n257A | DC\_5A\_n257A |
| DC\_5A\_n260A  DC\_5A\_n260B  DC\_5A\_n260C  DC\_5A\_n260D  DC\_5A\_n260E  DC\_5A\_n260F  DC\_5A\_n260G  DC\_5A\_n260H  DC\_5A\_n260I  DC\_5A\_n260J  DC\_5A\_n260K  DC\_5A\_n260L  DC\_5A\_n260M  DC\_5A\_n260O  DC\_5A\_n260P  DC\_5A\_n260Q  DC\_5B\_n260A | DC\_5A\_n260A  DC\_5B\_n260A |
| DC\_5A\_n260(2A)  DC\_5A\_n260(3A)  DC\_5A\_n260(4A)  DC\_5A\_n260(A-I)  DC\_5A\_n260(D-G)  DC\_5A\_n260(D-H)  DC\_5A\_n260(D-I)  DC\_5A\_n260(D-O)  DC\_5A\_n260(D-P)  DC\_5A\_n260(D-Q)  DC\_5A\_n260(E-O)  DC\_5A\_n260(E-P)  DC\_5A\_n260(E-Q)  DC\_5A\_n260(G-I) | DC\_5A\_n260A |
| DC\_5A-5A\_n260A | DC\_5A\_n260A |
| DC\_5A\_n261A  DC\_5A\_n261B  DC\_5A\_n261C  DC\_5A\_n261D  DC\_5A\_n261E  DC\_5A\_n261F  DC\_5A\_n261G  DC\_5A\_n261H  DC\_5A\_n261I  DC\_5A\_n261J  DC\_5A\_n261K  DC\_5A\_n261L  DC\_5A\_n261M  DC\_5A\_n261O  DC\_5A\_n261P  DC\_5A\_n261Q | DC\_5A\_n261A |
| DC\_5A\_n261(2A)  DC\_5A\_n261(3A)  DC\_5A\_n261(4A)  DC\_5A\_n261(D-G)  DC\_5A\_n261(D-H)  DC\_5A\_n261(D-I)  DC\_5A\_n261(D-O)  DC\_5A\_n261(D-P)  DC\_5A\_n261(D-Q)  DC\_5A\_n261(E-O)  DC\_5A\_n261(E-P)  DC\_5A\_n261(E-Q) | DC\_5A\_n261A |
| DC\_7A\_n257A | DC\_7A\_n257A |
| DC\_7A-7A\_n257A | DC\_7A\_n257A |
| DC\_7A\_n258A | DC\_7A\_n258A |
| DC\_8A\_n257A | DC\_8A\_n257A |
| DC\_8A\_n258A | DC\_8A\_n258A |
| DC\_11A\_n257A | DC\_11A\_n257A |
| DC\_12A\_n260A  DC\_12A\_n260G  DC\_12A\_n260H  DC\_12A\_n260I  DC\_12A\_n260J  DC\_12A\_n260K  DC\_12A\_n260L  DC\_12A\_n260M | DC\_12A\_n260A |
| DC\_12A\_n260(A-I)  DC\_12A\_n260(G-I) | DC\_12A\_n260A |
| DC\_13A\_n257A | DC\_13A\_n257A |
| DC\_13A\_n260A | DC\_13A\_n260A |
| DC\_18A\_n257A | DC\_18A\_n257A |
| DC\_19A\_n257A  DC\_19A\_n257D  DC\_19A\_n257E  DC\_19A\_n257F | DC\_19A\_n257A |
| DC\_20A\_n258A | DC\_20A\_n258A |
| DC\_21A\_n257A  DC\_21A\_n257D  DC\_21A\_n257E  DC\_21A\_n257F | DC\_21A\_n257A |
| DC\_26A\_n257A | DC\_26A\_n257A |
| DC\_28A\_n257A  DC\_28A\_n257D  DC\_28A\_n257E  DC\_28A\_n257F | DC\_28A\_n257A |
| DC\_28A\_n258A | DC\_28A\_n258A |
| DC\_30A\_n260A  DC\_30A\_n260G  DC\_30A\_n260H  DC\_30A\_n260I  DC\_30A\_n260J  DC\_30A\_n260K  DC\_30A\_n260L  DC\_30A\_n260M | DC\_30A\_n260A |
| DC\_30A\_n260(A-I)  DC\_30A\_n260(G-I) | DC\_30A\_n260A |
| DC\_39A\_n258A | DC\_39A\_n258A |
| DC\_41A\_n257A  DC\_41C\_n257A | DC\_41A\_n257A  DC\_41C\_n257A |
| DC\_41A\_n258A | DC\_41A\_n258A |
| DC\_42A\_n257A  DC\_42C\_n257A  DC\_42A\_n257D  DC\_42A\_n257E  DC\_42A\_n257F  DC\_42C\_n257D  DC\_42C\_n257E  DC\_42C\_n257F  DC\_42D\_n257A  DC\_42E\_n257A | DC\_42A\_n257A  DC\_42C\_n257A |
| DC\_48A\_n257A  DC\_48C\_n257A | DC\_48A\_n257A  DC\_48C\_n257A |
| DC\_48A-48A\_n257A | DC\_48A\_n257A |
| DC\_48A\_n260A  DC\_48C\_n260A | DC\_48A\_n260A  DC\_48C\_n260A |
| DC\_48A-48A\_n260A | DC\_48A\_n260A |
| DC\_66A\_n257A  DC\_66A\_n257G  DC\_66A\_n257H  DC\_66A\_n257I  DC\_66A\_n257J  DC\_66A\_n257K  DC\_66A\_n257L  DC\_66A\_n257M  DC\_66C\_n257A | DC\_66A\_n257A |
| DC\_66A\_n257(2A) | DC\_66A\_n257A |
| DC\_66A-66A\_n257A | DC\_66A\_n257A |
| DC\_66A\_n260A  DC\_66A\_n260D  DC\_66A\_n260E  DC\_66A\_n260F  DC\_66A\_n260G  DC\_66A\_n260H  DC\_66A\_n260I  DC\_66A\_n260J  DC\_66A\_n260K  DC\_66A\_n260L  DC\_66A\_n260M  DC\_66A\_n260O  DC\_66A\_n260P  DC\_66A\_n260Q | DC\_66A\_n260A |
| DC\_66A\_n260(2A)  DC\_66A\_n260(3A)  DC\_66A\_n260(4A)  DC\_66A\_n260(A-I)  DC\_66A\_n260(D-G)  DC\_66A\_n260(D-H)  DC\_66A\_n260(D-I)  DC\_66A\_n260(D-O)  DC\_66A\_n260(D-P)  DC\_66A\_n260(D-Q)  DC\_66A\_n260(E-O)  DC\_66A\_n260(E-P)  DC\_66A\_n260(E-Q)  DC\_66A\_n260(G-I) | DC\_66A\_n260A |
| DC\_66A-66A\_n260A  DC\_66A-66A\_n260G  DC\_66A-66A\_n260H  DC\_66A-66A\_n260I  DC\_66A-66A\_n260J  DC\_66A-66A\_n260K  DC\_66A-66A\_n260L  DC\_66A-66A\_n260M | DC\_66A\_n260A |
| DC\_66A\_n261A  DC\_66A\_n261D  DC\_66A\_n261E  DC\_66A\_n261F  DC\_66A\_n261G  DC\_66A\_n261H  DC\_66A\_n261I  DC\_66A\_n261J  DC\_66A\_n261K  DC\_66A\_n261L  DC\_66A\_n261M  DC\_66A\_n261O  DC\_66A\_n261P  DC\_66A\_n261Q | DC\_66A\_n261A |
| DC\_66A\_n261(2A)  DC\_66A\_n261(3A)  DC\_66A\_n261(4A)  DC\_66A\_n261(D-G)  DC\_66A\_n261(D-H)  DC\_66A\_n261(D-I)  DC\_66A\_n261(D-O)  DC\_66A\_n261(D-P)  DC\_66A\_n261(D-Q)  DC\_66A\_n261(E-O)  DC\_66A\_n261(E-P)  DC\_66A\_n261(E-Q) | DC\_66A\_n261A |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications.  NOTE 2: Applicable for UE supporting inter-band EN-DC with mandatory simultaneous Rx/Tx capability for all of the above combinations | |

#### 5.5B.5.2 Inter-band EN-DC configurations including FR2 (three bands)

Table 5.5B.5.2-1: Inter-band EN-DC configurations including FR2 (three bands)

| EN-DC configuration | Uplink EN-DC configuration (NOTE 1) |
| --- | --- |
| DC\_1A-3A\_n257A2  DC\_1A-3A\_n257D2  DC\_1A-3A\_n257E2  DC\_1A-3A\_n257F2 | DC\_1A\_n257A  DC\_3A\_n257A |
| DC\_1A-5A\_n257A2 | DC\_1A\_n257A  DC\_5A\_n257A |
| DC\_1A-7A\_n257A2 | DC\_1A\_n257A  DC\_7A\_n257A |
| DC\_1A-7A-7A\_n257A2 | DC\_1A\_n257A  DC\_7A\_n257A |
| DC\_1A-8A\_n257A2 | DC\_1A\_n257A  DC\_8A\_n257A |
| DC\_1A-18A\_n257A2 | DC\_1A\_n257A  DC\_18A\_n257A |
| DC\_1A-19A\_n257A2  DC\_1A-19A\_n257D2  DC\_1A-19A\_n257E2  DC\_1A-19A\_n257F2 | DC\_1A\_n257A  DC\_19A\_n257A |
| DC\_1A-21A\_n257A2  DC\_1A-21A\_n257D2  DC\_1A-21A\_n257E2  DC\_1A-21A\_n257F2 | DC\_1A\_n257A  DC\_21A\_n257A |
| DC\_1A-28A\_n257A2  DC\_1A-28A\_n257D2  DC\_1A-28A\_n257E2  DC\_1A-28A\_n257F2 | DC\_1A\_n257A  DC\_28A\_n257A |
| DC\_1A-41A\_n257A  DC\_1A-41C\_n257A | DC\_1A\_n257A  DC\_41A\_n257A  DC\_41C\_n257A |
| DC\_1A-42A\_n257A  DC\_1A-42A\_n257D  DC\_1A-42A\_n257E  DC\_1A-42A\_n257F  DC\_1A-42C\_n257A  DC\_1A-42C\_n257D  DC\_1A-42C\_n257E  DC\_1A-42C\_n257F  DC\_1A-42D\_n257A  DC\_1A-42E\_n257A | DC\_1A\_n257A  DC\_42A\_n257A |
| DC\_2A-5A\_n257A2 | DC\_2A\_n257A  DC\_5A\_n257A |
| DC\_2A-5A\_n260A  DC\_2A-5A\_n260G  DC\_2A-5A\_n260H  DC\_2A-5A\_n260I  DC\_2A-5A\_n260J  DC\_2A-5A\_n260K  DC\_2A-5A\_n260L  DC\_2A-5A\_n260M | DC\_2A\_n260A  DC\_5A\_n260A |
| DC\_2A-12A\_n260A  DC\_2A-12A\_n260G  DC\_2A-12A\_n260H  DC\_2A-12A\_n260I  DC\_2A-12A\_n260J  DC\_2A-12A\_n260K  DC\_2A-12A\_n260L  DC\_2A-12A\_n260M | DC\_2A\_n260A  DC\_12A\_n260A |
| DC\_2A-13A\_n257A2 | DC\_2A\_n257A  DC\_13A\_n257A |
| DC\_2A-13A\_n260A2 | DC\_2A\_n260A  DC\_13A\_n260A |
| DC\_2A-30A\_n260A  DC\_2A-30A\_n260G  DC\_2A-30A\_n260H  DC\_2A-30A\_n260I  DC\_2A-30A\_n260J  DC\_2A-30A\_n260K  DC\_2A-30A\_n260L  DC\_2A-30A\_n260M | DC\_2A\_n260A  DC\_30A\_n260A |
| DC\_2A-66A\_n257A2 | DC\_2A\_n257A  DC\_66A\_n257A |
| DC\_2A-66A\_n260A  DC\_2A-66A\_n260G  DC\_2A-66A\_n260H  DC\_2A-66A\_n260I  DC\_2A-66A\_n260J  DC\_2A-66A\_n260K  DC\_2A-66A\_n260L  DC\_2A-66A\_n260M | DC\_2A\_n260A  DC\_66A\_n260A |
| DC\_3A-5A\_n257A2 | DC\_3A\_n257A  DC\_5A\_n257A |
| DC\_3A-7A\_n257A2 | DC\_3A\_n257A  DC\_7A\_n257A |
| DC\_3A-7A-7A\_n257A2 | DC\_3A\_n257A  DC\_7A\_n257A |
| DC\_3A-19A\_n257A2  DC\_3A-19A\_n257D2  DC\_3A-19A\_n257E2  DC\_3A-19A\_n257F2 | DC\_3A\_n257A  DC\_19A\_n257A |
| DC\_3A-21A\_n257A2  DC\_3A-21A\_n257D2  DC\_3A-21A\_n257E2  DC\_3A-21A\_n257F2 | DC\_3A\_n257A  DC\_21A\_n257A |
| DC\_3A-28A\_n257A2  DC\_3A-28A\_n257D2  DC\_3A-28A\_n257E2  DC\_3A-28A\_n257F2 | DC\_3A\_n257A  DC\_28A\_n257A |
| DC\_3A-41A\_n257A | DC\_3A\_n257A  DC\_41A\_n257A |
| DC\_3A-42A\_n257A2  DC\_3A-42A\_n257D2  DC\_3A-42A\_n257E2  DC\_3A-42A\_n257F2  DC\_3A-42C\_n257A2  DC\_3A-42C\_n257D2  DC\_3A-42C\_n257E2  DC\_3A-42C\_n257F2  DC\_3A-42D\_n257A2  DC\_3A-42E\_n257A2 | DC\_3A\_n257A  DC\_42A\_n257A |
| DC\_5A-7A\_n257A2 | DC\_5A\_n257A  DC\_7A\_n257A |
| DC\_5A-7A-7A\_n257A | DC\_5A\_n257A  DC\_7A\_n257A |
| DC\_5A-30A\_n260A  DC\_5A-30A\_n260G  DC\_5A-30A\_n260H  DC\_5A-30A\_n260I  DC\_5A-30A\_n260J  DC\_5A-30A\_n260K  DC\_5A-30A\_n260L  DC\_5A-30A\_n260M | DC\_5A\_n260A  DC\_30A\_n260A |
| DC\_5A-66A\_n257A | DC\_5A\_n257A  DC\_66A\_n257A |
| DC\_5A-66A\_n260A  DC\_5A-66A\_n260G  DC\_5A-66A\_n260H  DC\_5A-66A\_n260I  DC\_5A-66A\_n260J  DC\_5A-66A\_n260K  DC\_5A-66A\_n260L  DC\_5A-66A\_n260M | DC\_5A\_n260A  DC\_66A\_n260A |
| DC\_12A-30A\_n260A  DC\_12A-30A\_n260G  DC\_12A-30A\_n260H  DC\_12A-30A\_n260I  DC\_12A-30A\_n260J  DC\_12A-30A\_n260K  DC\_12A-30A\_n260L  DC\_12A-30A\_n260M | DC\_12A\_n260A  DC\_30A\_n260A |
| DC\_12A-66A\_n260A  DC\_12A-66A\_n260G  DC\_12A-66A\_n260H  DC\_12A-66A\_n260I  DC\_12A-66A\_n260J  DC\_12A-66A\_n260K  DC\_12A-66A\_n260L  DC\_12A-66A\_n260M | DC\_12A\_n260A  DC\_66A\_n260A |
| DC\_13A-66A\_n257A2 | DC\_13A\_n257A  DC\_66A\_n257A |
| DC\_13A-66A\_n260A2 | DC\_13A\_n260A  DC\_66A\_n260A |
| DC\_18A-28A\_n257A2 | DC\_18A\_n257A  DC\_28A\_n257A |
| DC\_19A-21A\_n257A2  DC\_19A-21A\_n257D2  DC\_19A-21A\_n257E2  DC\_19A-21A\_n257F2 | DC\_19A\_n257A  DC\_21A\_n257A |
| DC\_19A-42A\_n257A2  DC\_19A-42A\_n257D2  DC\_19A-42A\_n257E2  DC\_19A-42A\_n257F2  DC\_19A-42C\_n257A2 | DC\_19A\_n257A  DC\_42A\_n257A |
| DC\_21A-28A\_n257A2  DC\_21A-28A\_n257D2  DC\_21A-28A\_n257E2  DC\_21A-28A\_n257F2 | DC\_21A\_n257A  DC\_28A\_n257A |
| DC\_21A-42A\_n257A2  DC\_21A-42A\_n257D2  DC\_21A-42A\_n257E2  DC\_21A-42A\_n257F2  DC\_21A-42C\_n257A2 | DC\_21A\_n257A  DC\_42A\_n257A |
| DC\_28A-42C\_n257A2  DC\_28A-42A\_n257A2 | DC\_28A\_n257A  DC\_42A\_n257A |
| DC\_30A-66A\_n260A  DC\_30A-66A\_n260G  DC\_30A-66A\_n260H  DC\_30A-66A\_n260I  DC\_30A-66A\_n260J  DC\_30A-66A\_n260K  DC\_30A-66A\_n260L  DC\_30A-66A\_n260M | DC\_30A\_n260A  DC\_66A\_n260A |
| DC\_41A-42A\_n257A  DC\_41A-42C\_n257A  DC\_41C-42A\_n257A  DC\_41C-42C\_n257A | DC\_41A\_n257A  DC\_42A\_n257A |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications.  NOTE 2: Applicable for UE supporting inter-band EN-DC with mandatory simultaneous Rx/Tx capability | |

#### 5.5B.5.3 Inter-band EN-DC configurations including FR2 (four bands)

Table 5.5B.5.3-1: Inter-band EN-DC configurations including FR2 (four bands)

| EN-DC configuration | Uplink EN-DC configuration (NOTE 1) |
| --- | --- |
| DC\_1A-3A-5A\_n257A2 | DC\_1A\_n257A  DC\_3A\_n257A  DC\_5A\_n257A |
| DC\_1A-3A-7A\_n257A2 | DC\_1A\_n257A  DC\_3A\_n257A  DC\_7A\_n257A |
| DC\_1A-3A-7A-7A\_n257A | DC\_1A\_n257A  DC\_3A\_n257A  DC\_7A\_n257A |
| DC\_1A-3A-19A\_n257A2 | DC\_1A\_n257A  DC\_3A\_n257A  DC\_19A\_n257A |
| DC\_1A-3A-21A\_n257A2 | DC\_1A\_n257A  DC\_3A\_n257A  DC\_21A\_n257A |
| DC\_1A-3A-28A\_n257A2 | DC\_1A\_n257A  DC\_3A\_n257A  DC\_28A\_n257A |
| DC\_1A-3A-42A\_n257A  DC\_1A-3A-42C\_n257A  DC\_1A-3A-42C\_n257D  DC\_1A-3A-42C\_n257E  DC\_1A-3A-42C\_n257F | DC\_1A\_n257A  DC\_3A\_n257A  DC\_42A\_n257A |
| DC\_1A-5A-7A\_n257A2 | DC\_1A\_n257A  DC\_5A\_n257A  DC\_7A\_n257A |
| DC\_1A-5A-7A-7A\_n257A | DC\_1A\_n257A  DC\_5A\_n257A  DC\_7A\_n257A |
| DC\_1A-18A-28A\_n257A2 | DC\_1A\_n257A  DC\_18A\_n257A  DC\_28A\_n257A |
| DC\_1A-19A-21A\_n257A  DC\_1A-19A-21A\_n257D  DC\_1A-19A-21A\_n257E  DC\_1A-19A-21A\_n257F | DC\_1A\_n257A  DC\_19A\_n257A  DC\_21A\_n257A |
| DC\_1A-19A-42A\_n257A  DC\_1A-19A-42C\_n257A  DC\_1A-19A-42C\_n257D  DC\_1A-19A-42C\_n257E  DC\_1A-19A-42C\_n257F | DC\_1A\_n257A  DC\_19A\_n257A  DC\_42A\_n257A |
| DC\_1A-21A-28A\_n257A2 | DC\_1A\_n257A  DC\_21A\_n257A  DC\_28A\_n257A |
| DC\_1A-21A-42A\_n257A  DC\_1A-21A-42C\_n257A  DC\_1A-21A-42C\_n257D  DC\_1A-21A-42C\_n257E  DC\_1A-21A-42C\_n257F | DC\_1A\_n257A  DC\_21A\_n257A  DC\_42A\_n257A |
| DC\_1A-28A-42A\_n257A  DC\_1A-28A-42C\_n257A | DC\_1A\_n257A  DC\_28A\_n257A  DC\_42A\_n257A |
| DC\_1A-41A-42A\_n257A  DC\_1A-41A-42C\_n257A  DC\_1A-41C-42A\_n257A  DC\_1A-41C-42C\_n257A | DC\_1A\_n257A  DC\_41A\_n257A  DC\_42A\_n257A |
| DC\_3A-5A-7A\_n257A2 | DC\_3A\_n257A  DC\_5A\_n257A  DC\_7A\_n257A |
| DC\_3A-5A-7A-7A\_n257A2 | DC\_3A\_n257A  DC\_5A\_n257A  DC\_7A\_n257A |
| DC\_3A-19A-21A\_n257A2 | DC\_3A\_n257A  DC\_19A\_n257A  DC\_21A\_n257A |
| DC\_3A-19A-42A\_n257A  DC\_3A-19A-42C\_n257A  DC\_3A-19A-42C\_n257D  DC\_3A-19A-42C\_n257E  DC\_3A-19A-42C\_n257F | DC\_3A\_n257A  DC\_19A\_n257A  DC\_42A\_n257A |
| DC\_3A-21A-42A\_n257A  DC\_3A-21A-42C\_n257A  DC\_3A-21A-42C\_n257D  DC\_3A-21A-42C\_n257E  DC\_3A-21A-42C\_n257F | DC\_3A\_n257A  DC\_21A\_n257A  DC\_42A\_n257A |
| DC\_3A-28A-42A\_n257A  DC\_3A-28A-42C\_n257A | DC\_3A\_n257A  DC\_28A\_n257A  DC\_42A\_n257A |
| DC\_19A-21A-42A\_n257A2  DC\_19A-21A-42C\_n257A2  DC\_19A-21A-42C\_n257D2  DC\_19A-21A-42C\_n257E2  DC\_19A-21A-42C\_n257F2 | DC\_19A\_n257A  DC\_21A\_n257A  DC\_42A\_n257A |
| DC\_21A-28A-42A\_n257A2  DC\_21A-28A-42C\_n257A2 | DC\_21A\_n257A  DC\_28A\_n257A  DC\_42A\_n257A |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications.  NOTE 2: Applicable for UE supporting inter-band EN-DC with mandatory simultaneous Rx/Tx capability | |

#### 5.5B.5.4 Inter-band EN-DC configurations including FR2 (five bands)

Table 5.5B.5.4-1: Inter-band EN-DC configurations including FR2 (five bands)

| EN-DC configuration | Uplink EN-DC configuration (NOTE 1) |
| --- | --- |
| DC\_1A-3A-5A-7A\_n257A | DC\_1A\_n257A  DC\_3A\_n257A  DC\_5A\_n257A  DC\_7A\_n257A |
| DC\_1A-3A-5A-7A-7A\_n257A | DC\_1A\_n257A  DC\_3A\_n257A  DC\_5A\_n257A  DC\_7A\_n257A |
| DC\_1A-3A-19A-21A\_n257A  DC\_1A-3A-19A-21A\_n257D  DC\_1A-3A-19A-21A\_n257E  DC\_1A-3A-19A-21A\_n257F | DC\_1A\_n257A  DC\_3A\_n257A  DC\_19A\_n257A  DC\_21A\_n257A |
| DC\_1A-3A-19A-42A\_n257A  DC\_1A-3A-19A-42A\_n257D  DC\_1A-3A-19A-42A\_n257E  DC\_1A-3A-19A-42A\_n257F  DC\_1A-3A-19A-42C\_n257A  DC\_1A-3A-19A-42C\_n257D  DC\_1A-3A-19A-42C\_n257E  DC\_1A-3A-19A-42C\_n257F | DC\_1A\_n257A  DC\_3A\_n257A  DC\_19A\_n257A  DC\_42A\_n257A |
| DC\_1A-3A-21A-42A\_n257A  DC\_1A-3A-21A-42C\_n257A  DC\_1A-3A-21A-42C\_n257D  DC\_1A-3A-21A-42C\_n257E  DC\_1A-3A-21A-42C\_n257F | DC\_1A\_n257A  DC\_3A\_n257A  DC\_21A\_n257A  DC\_42A\_n257A |
| DC\_1A-3A-28A-42A\_n257A  DC\_1A-3A-28A-42C\_n257A | DC\_1A\_n257A  DC\_3A\_n257A  DC\_28A\_n257A  DC\_42A\_n257A |
| DC\_1A-19A-21A-42A\_n257A  DC\_1A-19A-21A-42A\_n257D  DC\_1A-19A-21A-42A\_n257E  DC\_1A-19A-21A-42A\_n257F  DC\_1A-19A-21A-42C\_n257A  DC\_1A-19A-21A-42C\_n257D  DC\_1A-19A-21A-42C\_n257E  DC\_1A-19A-21A-42C\_n257F | DC\_1A\_n257A  DC\_19A\_n257A  DC\_21A\_n257A  DC\_42A\_n257A |
| DC\_1A-19A-28A-42C\_n257A | DC\_1A\_n257A  DC\_19A\_n257A  DC\_28A\_n257A  DC\_42A\_n257A |
| DC\_1A-21A-28A-42A\_n257A | DC\_1A\_n257A  DC\_21A\_n257A  DC\_28A\_n257A  DC\_42A\_n257A |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications.NOTE 2: Void | |

#### 5.5B.5.5 Void

### 5.5B.6 Inter-band EN-DC including FR1 and FR2

#### 5.5B.6.1 Void

#### 5.5B.6.2 Inter-band EN-DC configurations including FR1 and FR2 (three bands)

Table 5.5B.6.2-1: Inter-band EN-DC configurations including FR1 and FR2 (three bands)

| EN-DC configuration | Uplink EN-DC configuration (NOTE 1) |
| --- | --- |
| DC\_1A\_n77A-n257A  DC\_1A\_n77A-n257D  DC\_1A\_n77A-n257E  DC\_1A\_n77A-n257F  DC\_1A\_n77C-n257A  DC\_1A\_n77C-n257D  DC\_1A\_n77C-n257E  DC\_1A\_n77C-n257F | DC\_1A\_n77A  DC\_1A\_n257A  DC\_1A\_n77A-n257A |
| DC\_1A\_n78A-n257A  DC\_1A\_n78A-n257D  DC\_1A\_n78A-n257E  DC\_1A\_n78A-n257F  DC\_1A\_n78C-n257A  DC\_1A\_n78C-n257D  DC\_1A\_n78C-n257E  DC\_1A\_n78C-n257F | DC\_1A\_n78A  DC\_1A\_n257A  DC\_1A\_n78A-n257A |
| DC\_1A\_n79A-n257A  DC\_1A\_n79A-n257D  DC\_1A\_n79A-n257E  DC\_1A\_n79A-n257F  DC\_1A\_n79C-n257A  DC\_1A\_n79C-n257D  DC\_1A\_n79C-n257E  DC\_1A\_n79C-n257F | DC\_1A\_n79A  DC\_1A\_n257A  DC\_1A\_n79A-n257A |
| DC\_3A\_n77A-n257A  DC\_3A\_n77A-n257D  DC\_3A\_n77A-n257E  DC\_3A\_n77A-n257F  DC\_3A\_n77C-n257A  DC\_3A\_n77C-n257D  DC\_3A\_n77C-n257E  DC\_3A\_n77C-n257F | DC\_3A\_n77A  DC\_3A\_n257A  DC\_3A\_n77A-n257A |
| DC\_3A\_n78A-n257A  DC\_3A\_n78A-n257D  DC\_3A\_n78A-n257E  DC\_3A\_n78A-n257F  DC\_3A\_n78C-n257A  DC\_3A\_n78C-n257D  DC\_3A\_n78C-n257E  DC\_3A\_n78C-n257F | DC\_3A\_n78A  DC\_3A\_n257A  DC\_3A\_n78A-n257A |
| DC\_3A\_n79A-n257A  DC\_3A\_n79A-n257D  DC\_3A\_n79A-n257E  DC\_3A\_n79A-n257F  DC\_3A\_n79C-n257A  DC\_3A\_n79C-n257D  DC\_3A\_n79C-n257E  DC\_3A\_n79C-n257F | DC\_3A\_n79A  DC\_3A\_n257A  DC\_3A\_n79A-n257A |
| DC\_5A\_n78A-n257A2 | DC\_5A\_n78A  DC\_5A\_n257A |
| DC\_7A\_n78A-n257A | DC\_7A\_n78A  DC\_7A\_n257A |
| DC\_7A-7A\_n78A-n257A | DC\_7A\_n78A  DC\_7A\_n257A  DC\_7A\_n78A-n257A |
| DC\_19A\_n77A-n257A  DC\_19A\_n77A-n257D  DC\_19A\_n77A-n257E  DC\_19A\_n77A-n257F  DC\_19A\_n77C-n257A  DC\_19A\_n77C-n257D  DC\_19A\_n77C-n257E  DC\_19A\_n77C-n257F | DC\_19A\_n77A  DC\_19A\_n257A  DC\_19A\_n77A-n257A |
| DC\_19A\_n78A-n257A  DC\_19A\_n78A-n257D  DC\_19A\_n78A-n257E  DC\_19A\_n78A-n257F  DC\_19A\_n78C-n257A  DC\_19A\_n78C-n257D  DC\_19A\_n78C-n257E  DC\_19A\_n78C-n257F | DC\_19A\_n78A  DC\_19A\_n257A  DC\_19A\_n78A-n257A |
| DC\_19A\_n79A-n257A  DC\_19A\_n79A-n257D  DC\_19A\_n79A-n257E  DC\_19A\_n79A-n257F  DC\_19A\_n79C-n257A  DC\_19A\_n79C-n257D  DC\_19A\_n79C-n257E  DC\_19A\_n79C-n257F | DC\_19A\_n79A  DC\_19A\_n257A  DC\_19A\_n79A-n257A |
| DC\_21A\_n77A-n257A | DC\_21A\_n77A  DC\_21A\_n257A |
| DC\_21A\_n78A-n257A | DC\_21A\_n78A  DC\_21A\_n257A |
| DC\_21A\_n79A-n257A | DC\_21A\_n79A  DC\_21A\_n257A |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications.  NOTE 2: Applicable for UE supporting inter-band EN-DC with mandatory simultaneous Rx/Tx capability | |

#### 5.5B.6.3 Inter-band EN-DC configurations including FR1 and FR2 (four bands)

Table 5.5B.6.3-1: Inter-band EN-DC configurations including FR1 and FR2 (four bands)

| EN-DC configuration | Uplink EN-DC configuration (NOTE 1) |
| --- | --- |
| DC\_1A-3A\_n78A-n257A | DC\_1A\_n78A  DC\_1A\_n257A  DC\_3A\_n78A  DC\_3A\_n257A |
| DC\_1A-5A\_n78A-n257A | DC\_1A\_n78A  DC\_1A\_n257A  DC\_5A\_n78A  DC\_5A\_n257A |
| DC\_1A-7A\_n78A-n257A | DC\_1A\_n78A  DC\_1A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| DC\_1A-7A-7A\_n78A-n257A | DC\_1A\_n78A  DC\_1A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| DC\_3A-5A\_n78A-n257A | DC\_3A\_n78A  DC\_3A\_n257A  DC\_5A\_n78A  DC\_5A\_n257A |
| DC\_3A-7A\_n78A-n257A | DC\_3A\_n78A  DC\_3A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| DC\_3A-7A-7A\_n78A-n257A | DC\_3A\_n78A  DC\_3A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| DC\_5A-7A\_n78A-n257A | DC\_5A\_n78A  DC\_5A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| DC\_5A-7A-7A\_n78A-n257A | DC\_5A\_n78A  DC\_5A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications. | |

#### 5.5B.6.4 Inter-band EN-DC configurations including FR1 and FR2 (five bands)

Table 5.5B.6.4-1: Inter-band EN-DC configurations including FR1 and FR2 (five bands)

| EN-DC configuration | Uplink EN-DC configuration (NOTE 1) |
| --- | --- |
| DC\_1A-3A-5A\_n78A-n257A | DC\_1A\_n78A  DC\_1A\_n257A  DC\_3A\_n78A  DC\_3A\_n257A  DC\_5A\_n78A  DC\_5A\_n257A |
| DC\_1A-3A-7A\_n78A-n257A | DC\_1A\_n78A  DC\_1A\_n257A  DC\_3A\_n78A  DC\_3A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| DC\_1A-3A-7A-7A\_n78A-n257A | DC\_1A\_n78A  DC\_1A\_n257A  DC\_3A\_n78A  DC\_3A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| DC\_1A-5A-7A\_n78A-n257A | DC\_1A\_n78A  DC\_1A\_n257A  DC\_5A\_n78A  DC\_5A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| DC\_1A-5A-7A-7A\_n78A-n257A | DC\_1A\_n78A  DC\_1A\_n257A  DC\_5A\_n78A  DC\_5A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| DC\_3A-5A-7A\_n78A-n257A | DC\_3A\_n78A  DC\_3A\_n257A  DC\_5A\_n78A  DC\_5A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| DC\_3A-5A-7A-7A\_n78A-n257A | DC\_3A\_n78A  DC\_3A\_n257A  DC\_5A\_n78A  DC\_5A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications. | |

#### 5.5B.6.5 Inter-band EN-DC configurations including FR1 and FR2 (six bands)

Table 5.5B.6.5-1: Inter-band EN-DC configurations including FR1 and FR2 (six bands)

| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) |
| --- | --- |
| DC\_1A-3A-5A-7A\_n78A-n257A | DC\_1A\_n78A  DC\_1A\_n257A  DC\_3A\_n78A  DC\_3A\_n257A  DC\_5A\_n78A  DC\_5A\_n257A  DC\_7A\_n78A  DC\_7A\_n257A |
| NOTE 1: Uplink EN-DC configurations are the configurations supported by the present release of specifications. | |

### 5.5B.7 Inter-band NR-DC between FR1 and FR2

#### 5.5B.7.0 General

The configurations and bandwidth combination sets for the FR1-FR2 NR-DC combinations in the following sub-section are defined in the tables for FR1-FR2 carrier aggregation in section 5.5A.1.

#### 5.5B.7.1 Inter-band NR-DC configurations between FR1 and FR2 (two bands)

Table 5.5B.7-1: Inter-band NR-DC configurations between FR1 and FR2 (two bands)

| Downlink NR DC  configuration | Uplink NR DC  configuration |
| --- | --- |
| DC\_n77A-n257A  DC\_n77A-n257D  DC\_n77A-n257E  DC\_n77A-n257F  DC\_n77A-n257G  DC\_n77A-n257H  DC\_n77A-n257I  DC\_n77A-n257J  DC\_n77A-n257K  DC\_n77A-n257L  DC\_n77A-n257M  DC\_n77C-n257A  DC\_n77C-n257D  DC\_n77C-n257E  DC\_n77C-n257F | DC\_n77A-n257A |
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| DC\_n78A-n257A  DC\_n78A-n257D  DC\_n78A-n257E  DC\_n78A-n257F  DC\_n78A-n257G  DC\_n78A-n257H  DC\_n78A-n257I  DC\_n78A-n257J  DC\_n78A-n257K  DC\_n78A-n257L  DC\_n78A-n257M  DC\_n78C-n257A  DC\_n78C-n257D  DC\_n78C-n257E  DC\_n78C-n257F | DC\_n78A-n257A |
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| DC\_n79A-n257A  DC\_n79A-n257D  DC\_n79A-n257E  DC\_n79A-n257F  DC\_n79A-n257G  DC\_n79A-n257H  DC\_n79A-n257I  DC\_n79A-n257J  DC\_n79A-n257K  DC\_n79A-n257L  DC\_n79A-n257M  DC\_n79C-n257A  DC\_n79C-n257D  DC\_n79C-n257E  DC\_n79C-n257F | DC\_n79A-n257A |
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