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Technical Report

3rd Generation Partnership Project;

Technical Specification Group Radio Access Networks;

E-UTRA (Evolved Universal Terrestrial Radio Access) - NR Dual Connectivity (EN-DC) of LTE inter-band Carrier Aggregation (CA) x Down Link (DL) / 1 Up Link (UL) bands (x=2,3,4) and NR FR1 band (1 DL / 1 UL) and NR FR2 band(1 DL / 1 UL)

(Release 16)



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***3GPP***

Postal address

3GPP support office address

650 Route des Lucioles - Sophia Antipolis

Valbonne - FRANCE

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

Internet

http://www.3gpp.org

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Foreword

This Technical Report has been produced by the 3rd Generation Partnership Project (3GPP).

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 is a technical report for Dual Connectivity (EN-DC) of LTE inter-band CA (xDL/1UL) (x=2,3,4) bands and NR FR1 1DL/1UL band and NR FR2 1DL/1UL band under Rel-16 time frame. The purpose is to gather the relevant background information and studies in order to address EN-DC of LTE inter-band CA (xDL/1UL) (x=2,3,4) bands and NR FR1 1DL/1UL band and NR FR2 1DL/1UL band for the Rel-16 band combinations in Table 1-1. The RF front end requirements such as Delta RIB,C and TIB,C are described based on the band combination basis since such information have no difference between the EN-DC configulations consisting with the same E-UTRA band and the same NR band.

Table 1-1: Release 16 EN-DC of LTE inter-band CA (xDL/1UL) (x=2,3,4) bands and NR FR1 1DL/1UL band and NR FR2 1DL/1UL band

|  |  |
| --- | --- |
| EN-DC configuration | Uplink EN-DC configuration |
|  |  |

This TR contains only band specific combination part. The actual requirements are added to the corresponding technical specifications.

# 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".

# 3 Definitions, symbols and abbreviations

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 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 TR 21.905 [1].

## 3.2 Symbols

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

<symbol> <Explanation>

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 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 TR 21.905 [1].

# 4 Background

The present document is a technical report for EN-DC of LTE inter-band CA (xDL/1UL) (x=2,3,4) bands and NR FR1 1DL/1UL band and NR FR2 1DL/1UL band under Rel-16 time frame. It covers both the UE and BS side. The document is divided in two different parts:

- General part: this part covers BS and UE specific which is band combination independent.

- Specific band combination part: this part covers each band combination and its specific issues independently from each other (i.e. one subclause is defined per band combination)

The specific band combination parts are independent and therefore, the working speed also differs.

## 4.1 TR Maintenance

A single company is responsible for introducing all approved TPs in the current TR, i.e. TR editor. However, it is the responsibility of the contact person of each band combination to ensure that the TPs related to the band combination have been implemented.

# 5 EN-DC of LTE inter-band CA (xDL/1UL) (x=2,3,4) bands and NR FR1 1DL/1UL band and NR FR2 1DL/1UL band: General Part

Co-existence studies and MSD analysis can be omitted because harmonic interference and intermodulation between LTE bands and NR FR1 bands have been already studied in lower order EN-DC combinations, and interference between FR1 bands and FR2 band is assumed to be negligible.

∆TIB and ∆RIB values also can be omitted because ∆TIB and ∆RIB values are the same values as lower order EN-DC cominations of LTE inter-band CA(xDL/1UL)(x=2,3,4) bands and NR FR1 1DL/1UL band.

# 6 EN-DC of LTE inter-band CA (2DL/1UL) bands and NR FR1 1DL/1UL band and NR FR2 1DL/1UL band: Specific Band Combination Part

<Editor’s note: The requirements for specific band combinations shall be described according to the same mannter as specified in TS38.101-3.>

## 6.0 DC\_1-2\_n3-n257

<Editor’s note: This section is the entry example.>

### 6.0.1 Configuration for EN-DC

**Table 6.x.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-2A\_n3A-n257A  DC\_1A-2A\_n3A-n257G  DC\_1A-2A\_n3A-n257H  DC\_1A-2A\_n3A-n257I | DC\_1A\_n3A-n257A  DC\_1A\_n3A-n257G  DC\_1A\_n3A-n257H  DC\_1A\_n3A-n257I  DC\_2A\_n3A-n257A  DC\_2A\_n3A-n257G  DC\_2A\_n3A-n257H  DC\_2A\_n3A-n257I |

## 6.1 DC\_1-3\_n77-n257

### 6.1.1 Configuration for EN-DC

**Table 6.1.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A\_n77A-n257A  DC\_1A-3A\_n77A-n257G  DC\_1A-3A\_n77A-n257H  DC\_1A-3A\_n77A-n257I | DC\_1A\_n77A-n257A  DC\_1A\_n77A-n257G  DC\_1A\_n77A-n257H  DC\_1A\_n77A-n257I  DC\_3A\_n77A-n257A  DC\_3A\_n77A-n257G  DC\_3A\_n77A-n257H  DC\_3A\_n77A-n257I |

## 6.2 DC\_1-3\_n78-n257

### 6.2.1 Configuration for EN-DC

**Table 6.2.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A\_n78A-n257A  DC\_1A-3A\_n78A-n257G  DC\_1A-3A\_n78A-n257H  DC\_1A-3A\_n78A-n257I | DC\_1A\_n78A-n257A  DC\_1A\_n78A-n257G  DC\_1A\_n78A-n257H  DC\_1A\_n78A-n257I  DC\_3A\_n78A-n257A  DC\_3A\_n78A-n257G  DC\_3A\_n78A-n257H  DC\_3A\_n78A-n257I |

## 6.3 DC\_1-3\_n79-n257

### 6.3.1 Configuration for EN-DC

**Table 6.3.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A\_n79A-n257A  DC\_1A-3A\_n79A-n257G  DC\_1A-3A\_n79A-n257H  DC\_1A-3A\_n79A-n257I | DC\_1A\_n79A-n257A  DC\_1A\_n79A-n257G  DC\_1A\_n79A-n257H  DC\_1A\_n79A-n257I  DC\_3A\_n79A-n257A  DC\_3A\_n79A-n257G  DC\_3A\_n79A-n257H  DC\_3A\_n79A-n257I |

## 6.4 DC\_1-19\_n79-n257

### 6.4.1 Configuration for EN-DC

**Table 6.4.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-19A\_n79A-n257A  DC\_1A-19A\_n79A-n257G  DC\_1A-19A\_n79A-n257H  DC\_1A-19A\_n79A-n257I | DC\_1A\_n79A-n257A  DC\_1A\_n79A-n257G  DC\_1A\_n79A-n257H  DC\_1A\_n79A-n257I  DC\_19A\_n79A-n257A  DC\_19A\_n79A-n257G  DC\_19A\_n79A-n257H  DC\_19A\_n79A-n257I |

## 6.5 DC\_1-21\_n77-n257

### 6.5.1 Configuration for EN-DC

**Table 6.5.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-21A\_n77A-n257A  DC\_1A-21A\_n77A-n257G  DC\_1A-21A\_n77A-n257H  DC\_1A-21A\_n77A-n257I | DC\_1A\_n77A-n257A  DC\_1A\_n77A-n257G  DC\_1A\_n77A-n257H  DC\_1A\_n77A-n257I  DC\_21A\_n77A-n257A  DC\_21A\_n77A-n257G  DC\_21A\_n77A-n257H  DC\_21A\_n77A-n257I |

## 6.6 DC\_1-21\_n78-n257

### 6.6.1 Configuration for EN-DC

**Table 6.6.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-21A\_n78A-n257A  DC\_1A-21A\_n78A-n257G  DC\_1A-21A\_n78A-n257H  DC\_1A-21A\_n78A-n257I | DC\_1A\_n78A-n257A  DC\_1A\_n78A-n257G  DC\_1A\_n78A-n257H  DC\_1A\_n78A-n257I  DC\_21A\_n78A-n257A  DC\_21A\_n78A-n257G  DC\_21A\_n78A-n257H  DC\_21A\_n78A-n257I |

## 6.7 DC\_1-21\_n79-n257

### 6.7.1 Configuration for EN-DC

**Table 6.7.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-21A\_n79A-n257A  DC\_1A-21A\_n79A-n257G  DC\_1A-21A\_n79A-n257H  DC\_1A-21A\_n79A-n257I | DC\_1A\_n79A-n257A  DC\_1A\_n79A-n257G  DC\_1A\_n79A-n257H  DC\_1A\_n79A-n257I  DC\_21A\_n79A-n257A  DC\_21A\_n79A-n257G  DC\_21A\_n79A-n257H  DC\_21A\_n79A-n257I |

## 6.8 DC\_1-42\_n77-n257

### 6.8.1 Configuration for EN-DC

**Table 6.8.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-42A\_n77A-n257A  DC\_1A-42A\_n77A-n257G  DC\_1A-42A\_n77A-n257H  DC\_1A-42A\_n77A-n257I  DC\_1A-42C\_n77A-n257A  DC\_1A-42C\_n77A-n257G  DC\_1A-42C\_n77A-n257H  DC\_1A-42C\_n77A-n257I | DC\_1A\_n77A-n257A  DC\_1A\_n77A-n257G  DC\_1A\_n77A-n257H  DC\_1A\_n77A-n257I |

## 6.9 DC\_1-42\_n78-n257

### 6.9.1 Configuration for EN-DC

**Table 6.9.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-42A\_n78A-n257A  DC\_1A-42A\_n78A-n257G  DC\_1A-42A\_n78A-n257H  DC\_1A-42A\_n78A-n257I  DC\_1A-42C\_n78A-n257A  DC\_1A-42C\_n78A-n257G  DC\_1A-42C\_n78A-n257H  DC\_1A-42C\_n78A-n257I | DC\_1A\_n78A-n257A  DC\_1A\_n78A-n257G  DC\_1A\_n78A-n257H  DC\_1A\_n78A-n257I |

## 6.10 DC\_1-42\_n79-n257

### 6.10.1 Configuration for EN-DC

**Table 6.10.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-42A\_n79A-n257A  DC\_1A-42A\_n79A-n257G  DC\_1A-42A\_n79A-n257H  DC\_1A-42A\_n79A-n257I  DC\_1A-42C\_n79A-n257A  DC\_1A-42C\_n79A-n257G  DC\_1A-42C\_n79A-n257H  DC\_1A-42C\_n79A-n257I | DC\_1A\_n79A-n257A  DC\_1A\_n79A-n257G  DC\_1A\_n79A-n257H  DC\_1A\_n79A-n257I |

## 6.11 DC\_3-19\_n77-n257

### 6.11.1 Configuration for EN-DC

**Table 6.11.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-19A\_n77A-n257A  DC\_3A-19A\_n77A-n257G  DC\_3A-19A\_n77A-n257H  DC\_3A-19A\_n77A-n257I | DC\_3A\_n77A-n257A  DC\_3A\_n77A-n257G  DC\_3A\_n77A-n257H  DC\_3A\_n77A-n257I  DC\_19A\_n77A-n257A  DC\_19A\_n77A-n257G  DC\_19A\_n77A-n257H  DC\_19A\_n77A-n257I |

## 6.12 DC\_3-19\_n78-n257

### 6.12.1 Configuration for EN-DC

**Table 6.12.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-19A\_n78A-n257A  DC\_3A-19A\_n78A-n257G  DC\_3A-19A\_n78A-n257H  DC\_3A-19A\_n78A-n257I | DC\_3A\_n78A-n257A  DC\_3A\_n78A-n257G  DC\_3A\_n78A-n257H  DC\_3A\_n78A-n257I  DC\_19A\_n78A-n257A  DC\_19A\_n78A-n257G  DC\_19A\_n78A-n257H  DC\_19A\_n78A-n257I |

## 6.13 DC\_3-19\_n79-n257

### 6.13.1 Configuration for EN-DC

**Table 6.13.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-19A\_n79A-n257A  DC\_3A-19A\_n79A-n257G  DC\_3A-19A\_n79A-n257H  DC\_3A-19A\_n79A-n257I | DC\_3A\_n79A-n257A  DC\_3A\_n79A-n257G  DC\_3A\_n79A-n257H  DC\_3A\_n79A-n257I  DC\_19A\_n79A-n257A  DC\_19A\_n79A-n257G  DC\_19A\_n79A-n257H  DC\_19A\_n79A-n257I |

## 6.14 DC\_3-21\_n77-n257

### 6.14.1 Configuration for EN-DC

**Table 6.14.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-21A\_n77A-n257A  DC\_3A-21A\_n77A-n257G  DC\_3A-21A\_n77A-n257H  DC\_3A-21A\_n77A-n257I | DC\_3A\_n77A-n257A  DC\_3A\_n77A-n257G  DC\_3A\_n77A-n257H  DC\_3A\_n77A-n257I  DC\_21A\_n77A-n257A  DC\_21A\_n77A-n257G  DC\_21A\_n77A-n257H  DC\_21A\_n77A-n257I |

## 6.15 DC\_3-21\_n78-n257

### 6.15.1 Configuration for EN-DC

**Table 6.15.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-21A\_n78A-n257A  DC\_3A-21A\_n78A-n257G  DC\_3A-21A\_n78A-n257H  DC\_3A-21A\_n78A-n257I | DC\_3A\_n78A-n257A  DC\_3A\_n78A-n257G  DC\_3A\_n78A-n257H  DC\_3A\_n78A-n257I  DC\_21A\_n78A-n257A  DC\_21A\_n78A-n257G  DC\_21A\_n78A-n257H  DC\_21A\_n78A-n257I |

## 6.16 DC\_3-21\_n79-n257

### 6.16.1 Configuration for EN-DC

**Table 6.16.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-21A\_n79A-n257A  DC\_3A-21A\_n79A-n257G  DC\_3A-21A\_n79A-n257H  DC\_3A-21A\_n79A-n257I | DC\_3A\_n79A-n257A  DC\_3A\_n79A-n257G  DC\_3A\_n79A-n257H  DC\_3A\_n79A-n257I  DC\_21A\_n79A-n257A  DC\_21A\_n79A-n257G  DC\_21A\_n79A-n257H  DC\_21A\_n79A-n257I |

## 6.17 DC\_3-42\_n77-n257

### 6.17.1 Configuration for EN-DC

**Table 6.17.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-42A\_n77A-n257A  DC\_3A-42A\_n77A-n257G  DC\_3A-42A\_n77A-n257H  DC\_3A-42A\_n77A-n257I  DC\_3A-42C\_n77A-n257A  DC\_3A-42C\_n77A-n257G  DC\_3A-42C\_n77A-n257H  DC\_3A-42C\_n77A-n257I | DC\_3A\_n77A-n257A  DC\_3A\_n77A-n257G  DC\_3A\_n77A-n257H  DC\_3A\_n77A-n257I |

## 6.18 DC\_3-42\_n78-n257

### 6.18.1 Configuration for EN-DC

**Table 6.18.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-42A\_n78A-n257A  DC\_3A-42A\_n78A-n257G  DC\_3A-42A\_n78A-n257H  DC\_3A-42A\_n78A-n257I  DC\_3A-42C\_n78A-n257A  DC\_3A-42C\_n78A-n257G  DC\_3A-42C\_n78A-n257H  DC\_3A-42C\_n78A-n257I | DC\_3A\_n78A-n257A  DC\_3A\_n78A-n257G  DC\_3A\_n78A-n257H  DC\_3A\_n78A-n257I |

## 6.19 DC\_3-42\_n79-n257

### 6.19.1 Configuration for EN-DC

**Table 6.19.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-42A\_n79A-n257A  DC\_3A-42A\_n79A-n257G  DC\_3A-42A\_n79A-n257H  DC\_3A-42A\_n79A-n257I  DC\_3A-42C\_n79A-n257A  DC\_3A-42C\_n79A-n257G  DC\_3A-42C\_n79A-n257H  DC\_3A-42C\_n79A-n257I | DC\_3A\_n79A-n257A  DC\_3A\_n79A-n257G  DC\_3A\_n79A-n257H  DC\_3A\_n79A-n257I |

## 6.20 DC\_19-21\_n77-n257

### 6.20.1 Configuration for EN-DC

**Table 6.20.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_19A-21A\_n77A-n257A  DC\_19A-21A\_n77A-n257G  DC\_19A-21A\_n77A-n257H  DC\_19A-21A\_n77A-n257I | DC\_19A\_n77A-n257A  DC\_19A\_n77A-n257G  DC\_19A\_n77A-n257H  DC\_19A\_n77A-n257I  DC\_21A\_n77A-n257A  DC\_21A\_n77A-n257G  DC\_21A\_n77A-n257H  DC\_21A\_n77A-n257I |

## 6.21 DC\_19-21\_n78-n257

### 6.21.1 Configuration for EN-DC

**Table 6.21.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_19A-21A\_n78A-n257A  DC\_19A-21A\_n78A-n257G  DC\_19A-21A\_n78A-n257H  DC\_19A-21A\_n78A-n257I | DC\_19A\_n78A-n257A  DC\_19A\_n78A-n257G  DC\_19A\_n78A-n257H  DC\_19A\_n78A-n257I  DC\_21A\_n78A-n257A  DC\_21A\_n78A-n257G  DC\_21A\_n78A-n257H  DC\_21A\_n78A-n257I |

## 6.22 DC\_19-21\_n79-n257

### 6.22.1 Configuration for EN-DC

**Table 6.22.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_19A-21A\_n79A-n257A  DC\_19A-21A\_n79A-n257G  DC\_19A-21A\_n79A-n257H  DC\_19A-21A\_n79A-n257I | DC\_19A\_n79A-n257A  DC\_19A\_n79A-n257G  DC\_19A\_n79A-n257H  DC\_19A\_n79A-n257I  DC\_21A\_n79A-n257A  DC\_21A\_n79A-n257G  DC\_21A\_n79A-n257H  DC\_21A\_n79A-n257I |

## 6.23 DC\_19-42\_n77-n257

### 6.23.1 Configuration for EN-DC

**Table 6.23.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_19A-42A\_n77A-n257A  DC\_19A-42A\_n77A-n257G  DC\_19A-42A\_n77A-n257H  DC\_19A-42A\_n77A-n257I  DC\_19A-42C\_n77A-n257A  DC\_19A-42C\_n77A-n257G  DC\_19A-42C\_n77A-n257H  DC\_19A-42C\_n77A-n257I | DC\_19A\_n77A-n257A  DC\_19A\_n77A-n257G  DC\_19A\_n77A-n257H  DC\_19A\_n77A-n257I |

## 6.24 DC\_19-42\_n78-n257

### 6.24.1 Configuration for EN-DC

**Table 6.24.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_19A-42A\_n78A-n257A  DC\_19A-42A\_n78A-n257G  DC\_19A-42A\_n78A-n257H  DC\_19A-42A\_n78A-n257I  DC\_19A-42C\_n78A-n257A  DC\_19A-42C\_n78A-n257G  DC\_19A-42C\_n78A-n257H  DC\_19A-42C\_n78A-n257I | DC\_19A\_n78A-n257A  DC\_19A\_n78A-n257G  DC\_19A\_n78A-n257H  DC\_19A\_n78A-n257I |

## 6.25 DC\_19-42\_n79-n257

### 6.25.1 Configuration for EN-DC

**Table 6.25.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_19A-42A\_n79A-n257A  DC\_19A-42A\_n79A-n257G  DC\_19A-42A\_n79A-n257H  DC\_19A-42A\_n79A-n257I  DC\_19A-42C\_n79A-n257A  DC\_19A-42C\_n79A-n257G  DC\_19A-42C\_n79A-n257H  DC\_19A-42C\_n79A-n257I | DC\_19A\_n79A-n257A  DC\_19A\_n79A-n257G  DC\_19A\_n79A-n257H  DC\_19A\_n79A-n257I |

## 6.26 DC\_21-42\_n77-n257

### 6.26.1 Configuration for EN-DC

**Table 6.26.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_21A-42A\_n77A-n257A  DC\_21A-42A\_n77A-n257G  DC\_21A-42A\_n77A-n257H  DC\_21A-42A\_n77A-n257I  DC\_21A-42C\_n77A-n257A  DC\_21A-42C\_n77A-n257G  DC\_21A-42C\_n77A-n257H  DC\_21A-42C\_n77A-n257I | DC\_21A\_n77A-n257A  DC\_21A\_n77A-n257G  DC\_21A\_n77A-n257H  DC\_21A\_n77A-n257I |

## 6.27 DC\_21-42\_n78-n257

### 6.27.1 Configuration for EN-DC

**Table 6.27.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_21A-42A\_n78A-n257A  DC\_21A-42A\_n78A-n257G  DC\_21A-42A\_n78A-n257H  DC\_21A-42A\_n78A-n257I  DC\_21A-42C\_n78A-n257A  DC\_21A-42C\_n78A-n257G  DC\_21A-42C\_n78A-n257H  DC\_21A-42C\_n78A-n257I | DC\_21A\_n78A-n257A  DC\_21A\_n78A-n257G  DC\_21A\_n78A-n257H  DC\_21A\_n78A-n257I |

## 6.28 DC\_21-42\_n79-n257

### 6.28.1 Configuration for EN-DC

**Table 6.28.1-1: DC band combination of LTE 2DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_21A-42A\_n79A-n257A  DC\_21A-42A\_n79A-n257G  DC\_21A-42A\_n79A-n257H  DC\_21A-42A\_n79A-n257I  DC\_21A-42C\_n79A-n257A  DC\_21A-42C\_n79A-n257G  DC\_21A-42C\_n79A-n257H  DC\_21A-42C\_n79A-n257I | DC\_21A\_n79A-n257A  DC\_21A\_n79A-n257G  DC\_21A\_n79A-n257H  DC\_21A\_n79A-n257I |

# 7 EN-DC of LTE inter-band CA (3DL/1UL) bands and NR FR1 1DL/1UL band and NR FR2 1DL/1UL band: Specific Band Combination Part

<Editor’s note: The requirements for specific band combinations shall be described according to the same mannter as specified in TS38.101-3.>

## 7.0 DC\_1-2-3\_n4-n257

<Editor’s note: This section is the entry example.>

### 7.0.1 Configuration for EN-DC

**Table 7.x.1-1: DC band combination of LTE 3DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-2A-3A\_n4A-n257A  DC\_1A-2A-3A\_n4A-n257G  DC\_1A-2A-3A\_n4A-n257H  DC\_1A-2A-3A\_n4A-n257I | DC\_1A\_n4A-n257A  DC\_1A\_n4A-n257G  DC\_1A\_n4A-n257H  DC\_1A\_n4A-n257I  DC\_2A\_n4A-n257A  DC\_2A\_n4A-n257G  DC\_2A\_n4A-n257H  DC\_2A\_n4A-n257I  DC\_3A\_n4A-n257A  DC\_3A\_n4A-n257G  DC\_3A\_n4A-n257H  DC\_3A\_n4A-n257I |

## 7.1 DC\_1-3-21\_n77-n257

### 7.1.1 Configuration for EN-DC

**Table 7.1.1-1: DC band combination of LTE 3DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A-21A\_n77A-n257A  DC\_1A-3A-21A\_n77A-n257G  DC\_1A-3A-21A\_n77A-n257H  DC\_1A-3A-21A\_n77A-n257I | DC\_1A\_n77A-n257A  DC\_1A\_n77A-n257G  DC\_1A\_n77A-n257H  DC\_1A\_n77A-n257I  DC\_3A\_n77A-n257A  DC\_3A\_n77A-n257G  DC\_3A\_n77A-n257H  DC\_3A\_n77A-n257I  DC\_21A\_n77A-n257A  DC\_21A\_n77A-n257G  DC\_21A\_n77A-n257H  DC\_21A\_n77A-n257I |

## 7.2 DC\_1-3-21\_n78-n257

### 7.2.1 Configuration for EN-DC

**Table 7.2.1-1: DC band combination of LTE 3DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A-21A\_n78A-n257A  DC\_1A-3A-21A\_n78A-n257G  DC\_1A-3A-21A\_n78A-n257H  DC\_1A-3A-21A\_n78A-n257I | DC\_1A\_n78A-n257A  DC\_1A\_n78A-n257G  DC\_1A\_n78A-n257H  DC\_1A\_n78A-n257I  DC\_3A\_n78A-n257A  DC\_3A\_n78A-n257G  DC\_3A\_n78A-n257H  DC\_3A\_n78A-n257I  DC\_21A\_n78A-n257A  DC\_21A\_n78A-n257G  DC\_21A\_n78A-n257H  DC\_21A\_n78A-n257I |

## 7.3 DC\_1-3-21\_n79-n257

### 7.3.1 Configuration for EN-DC

**Table 7.3.1-1: DC band combination of LTE 3DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A-21A\_n79A-n257A  DC\_1A-3A-21A\_n79A-n257G  DC\_1A-3A-21A\_n79A-n257H  DC\_1A-3A-21A\_n79A-n257I | DC\_1A\_n79A-n257A  DC\_1A\_n79A-n257G  DC\_1A\_n79A-n257H  DC\_1A\_n79A-n257I  DC\_3A\_n79A-n257A  DC\_3A\_n79A-n257G  DC\_3A\_n79A-n257H  DC\_3A\_n79A-n257I  DC\_21A\_n79A-n257A  DC\_21A\_n79A-n257G  DC\_21A\_n79A-n257H  DC\_21A\_n79A-n257I |

## 7.4 DC\_1-19-42\_n79-n257

### 7.4.1 Configuration for EN-DC

**Table 7.4.1-1: DC band combination of LTE 3DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-19A-42A\_n79A-n257A  DC\_1A-19A-42A\_n79A-n257G  DC\_1A-19A-42A\_n79A-n257H  DC\_1A-19A-42A\_n79A-n257I  DC\_1A-19A-42C\_n79A-n257A  DC\_1A-19A-42C\_n79A-n257G  DC\_1A-19A-42C\_n79A-n257H  DC\_1A-19A-42C\_n79A-n257I | DC\_1A\_n79A-n257A  DC\_1A\_n79A-n257G  DC\_1A\_n79A-n257H  DC\_1A\_n79A-n257I  DC\_19A\_n79A-n257A  DC\_19A\_n79A-n257G  DC\_19A\_n79A-n257H  DC\_19A\_n79A-n257I |

## 7.5 DC\_19-21-42\_n77-n257

### 7.5.1 Configuration for EN-DC

**Table 7.5.1-1: DC band combination of LTE 3DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_19A-21A-42A\_n77A-n257A  DC\_19A-21A-42A\_n77A-n257G  DC\_19A-21A-42A\_n77A-n257H  DC\_19A-21A-42A\_n77A-n257I  DC\_19A-21A-42C\_n77A-n257A  DC\_19A-21A-42C\_n77A-n257G  DC\_19A-21A-42C\_n77A-n257H  DC\_19A-21A-42C\_n77A-n257I | DC\_19A\_n77A-n257A  DC\_19A\_n77A-n257G  DC\_19A\_n77A-n257H  DC\_19A\_n77A-n257I  DC\_21A\_n77A-n257A  DC\_21A\_n77A-n257G  DC\_21A\_n77A-n257H  DC\_21A\_n77A-n257I |

## 7.6 DC\_19-21-42\_n78-n257

### 7.6.1 Configuration for EN-DC

**Table 7.6.1-1: DC band combination of LTE 3DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_19A-21A-42A\_n78A-n257A  DC\_19A-21A-42A\_n78A-n257G  DC\_19A-21A-42A\_n78A-n257H  DC\_19A-21A-42A\_n78A-n257I  DC\_19A-21A-42C\_n78A-n257A  DC\_19A-21A-42C\_n78A-n257G  DC\_19A-21A-42C\_n78A-n257H  DC\_19A-21A-42C\_n78A-n257I | DC\_19A\_n78A-n257A  DC\_19A\_n78A-n257G  DC\_19A\_n78A-n257H  DC\_19A\_n78A-n257I  DC\_21A\_n78A-n257A  DC\_21A\_n78A-n257G  DC\_21A\_n78A-n257H  DC\_21A\_n78A-n257I |

## 7.7 DC\_19-21-42\_n79-n257

### 7.7.1 Configuration for EN-DC

**Table 7.7.1-1: DC band combination of LTE 3DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_19A-21A-42A\_n79A-n257A  DC\_19A-21A-42A\_n79A-n257G  DC\_19A-21A-42A\_n79A-n257H  DC\_19A-21A-42A\_n79A-n257I  DC\_19A-21A-42C\_n79A-n257A  DC\_19A-21A-42C\_n79A-n257G  DC\_19A-21A-42C\_n79A-n257H  DC\_19A-21A-42C\_n79A-n257I | DC\_19A\_n79A-n257A  DC\_19A\_n79A-n257G  DC\_19A\_n79A-n257H  DC\_19A\_n79A-n257I  DC\_21A\_n79A-n257A  DC\_21A\_n79A-n257G  DC\_21A\_n79A-n257H  DC\_21A\_n79A-n257I |

## 7.8 DC\_1-21-42\_n77-n257

### 7.8.1 Configuration for EN-DC

**Table 7.8.1-1: DC band combination of LTE 3DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-21A-42A\_n77A-n257A  DC\_1A-21A-42A\_n77A-n257G  DC\_1A-21A-42A\_n77A-n257H  DC\_1A-21A-42A\_n77A-n257I  DC\_1A-21A-42C\_n77A-n257A  DC\_1A-21A-42C\_n77A-n257G  DC\_1A-21A-42C\_n77A-n257H  DC\_1A-21A-42C\_n77A-n257I | DC\_1A\_n77A-n257A  DC\_1A\_n77A-n257G  DC\_1A\_n77A-n257H  DC\_1A\_n77A-n257I  DC\_21A\_n77A-n257A  DC\_21A\_n77A-n257G  DC\_21A\_n77A-n257H  DC\_21A\_n77A-n257I |

## 7.9 DC\_1-21-42\_n78-n257

### 7.9.1 Configuration for EN-DC

**Table 7.9.1-1: DC band combination of LTE 3DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-21A-42A\_n78A-n257A  DC\_1A-21A-42A\_n78A-n257G  DC\_1A-21A-42A\_n78A-n257H  DC\_1A-21A-42A\_n78A-n257I  DC\_1A-21A-42C\_n78A-n257A  DC\_1A-21A-42C\_n78A-n257G  DC\_1A-21A-42C\_n78A-n257H  DC\_1A-21A-42C\_n78A-n257I | DC\_1A\_n78A-n257A  DC\_1A\_n78A-n257G  DC\_1A\_n78A-n257H  DC\_1A\_n78A-n257I  DC\_21A\_n78A-n257A  DC\_21A\_n78A-n257G  DC\_21A\_n78A-n257H  DC\_21A\_n78A-n257I |

## 7.10 DC\_1-21-42\_n79-n257

### 7.10.1 Configuration for EN-DC

**Table 7.10.1-1: DC band combination of LTE 3DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-21A-42A\_n79A-n257A  DC\_1A-21A-42A\_n79A-n257G  DC\_1A-21A-42A\_n79A-n257H  DC\_1A-21A-42A\_n79A-n257I  DC\_1A-21A-42C\_n79A-n257A  DC\_1A-21A-42C\_n79A-n257G  DC\_1A-21A-42C\_n79A-n257H  DC\_1A-21A-42C\_n79A-n257I | DC\_1A\_n79A-n257A  DC\_1A\_n79A-n257G  DC\_1A\_n79A-n257H  DC\_1A\_n79A-n257I  DC\_21A\_n79A-n257A  DC\_21A\_n79A-n257G  DC\_21A\_n79A-n257H  DC\_21A\_n79A-n257I |

# 8 EN-DC of LTE inter-band CA (4DL/1UL) bands and NR FR1 1DL/1UL band and NR FR2 1DL/1UL band: Specific Band Combination Part

<Editor’s note: The requirements for specific band combinations shall be described according to the same mannter as specified in TS38.101-3.>

## 8.x DC\_1-2-3-4\_n5-n257

<Editor’s note: This section is the entry example.>

### 8.x.1 Configuration for EN-DC

**Table 8.x.1-1: DC band combination of LTE 4DL/1UL + NR FR1 1DL/1UL + NR FR2 1DL/1UL**

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-2A-3A-4A\_n5A-n257A  DC\_1A-2A-3A-4A\_n5A-n257G  DC\_1A-2A-3A-4A \_n5A-n257H  DC\_1A-2A-3A-4A \_n5A-n257I | DC\_1A\_n5A-n257A  DC\_1A\_n5A-n257G  DC\_1A\_n5A-n257H  DC\_1A\_n5A-n257I  DC\_2A\_n5A-n257A  DC\_2A\_n5A-n257G  DC\_2A\_n5A-n257H  DC\_2A\_n5A-n257I  DC\_3A\_n5A-n257A  DC\_3A\_n5A-n257G  DC\_3A\_n5A-n257H  DC\_3A\_n5A-n257I  DC\_4A\_n5A-n257A  DC\_4A\_n5A-n257G  DC\_4A\_n5A-n257H  DC\_4A\_n5A-n257I |

Annex A: Change history

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Change history** | | | | | | | |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** | |
| 2020-02 | 3GPP RAN4#94 | R4-2000755 |  |  |  | Initial TR skeleton | 0.0.1 | |
| 2020-04 | 3GPP RAN4#94-e | R4-2003883 |  |  |  | R4-2001131 TP for DC\_1-3\_n77-n257 for TR37.716-41-22  R4-2001132 TP for DC\_1-21\_n77-n257 for TR37.716-41-22  R4-2001133 TP for DC\_1-42\_n77-n257 for TR37.716-41-22  R4-2001134 TP for DC\_3-19\_n77-n257 for TR37.716-41-22  R4-2001135 TP for DC\_3-21\_n77-n257 for TR37.716-41-22  R4-2001136 TP for DC\_3-42\_n77-n257 for TR37.716-41-22  R4-2001137 TP for DC\_19-21\_n77-n257 for TR37.716-41-22  R4-2001138 TP for DC\_19-42\_n77-n257 for TR37.716-41-22  R4-2001139 TP for DC\_21-42\_n77-n257 for TR37.716-41-22  R4-2001140 TP for DC\_1-3\_n78-n257 for TR37.716-41-22  R4-2001141 TP for DC\_1-21\_n78-n257 for TR37.716-41-22  R4-2001142 TP for DC\_1-42\_n78-n257 for TR37.716-41-22  R4-2001143 TP for DC\_3-19\_n78-n257 for TR37.716-41-22  R4-2001144 TP for DC\_3-21\_n78-n257 for TR37.716-41-22  R4-2001145 TP for DC\_3-42\_n78-n257 for TR37.716-41-22  R4-2001146 TP for DC\_19-21\_n78-n257 for TR37.716-41-22  R4-2001147 TP for DC\_19-42\_n78-n257 for TR37.716-41-22  R4-2001148 TP for DC\_21-42\_n78-n257 for TR37.716-41-22  R4-2001149 TP for DC\_1-3\_n79-n257 for TR37.716-41-22  R4-2001150 TP for DC\_1-21\_n79-n257 for TR37.716-41-22  R4-2001151 TP for DC\_1-42\_n79-n257 for TR37.716-41-22  R4-2001152 TP for DC\_3-19\_n79-n257 for TR37.716-41-22  R4-2001153 TP for DC\_3-21\_n79-n257 for TR37.716-41-22  R4-2001154 TP for DC\_3-42\_n79-n257 for TR37.716-41-22  R4-2001155 TP for DC\_19-21\_n79-n257 for TR37.716-41-22  R4-2001156 TP for DC\_19-42\_n79-n257 for TR37.716-41-22  R4-2001157 TP for DC\_21-42\_n79-n257 for TR37.716-41-22  R4-2001158 TP for DC\_1-19\_n79-n257 for TR37.716-41-22  R4-2001159 TP for DC\_1-3-21\_n77-n257 for TR37.716-41-22  R4-2001160 TP for DC\_19-21-42\_n77-n257 for TR37.716-41-22  R4-2001161 TP for DC\_1-21-42\_n77-n257 for TR37.716-41-22  R4-2001162 TP for DC\_1-3-21\_n78-n257 for TR37.716-41-22  R4-2001163 TP for DC\_19-21-42\_n78-n257 for TR37.716-41-22  R4-2001164 TP for DC\_1-21-42\_n78-n257 for TR37.716-41-22  R4-2001165 TP for DC\_1-3-21\_n79-n257 for TR37.716-41-22  R4-2001166 TP for DC\_19-21-42\_n79-n257 for TR37.716-41-22  R4-2001167 TP for DC\_1-21-42\_n79-n257 for TR37.716-41-22  R4-2001168 TP for DC\_1-19-42\_n79-n257 for TR37.716-41-22 | 0.1.0 | |

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| **Change history** | | | | | | | |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** |
| 2020-06 | RAN#88 |  |  |  |  | Approved by plenary – Rel-16 spec under change control | 16.0.0 |