**3GPP TSG-RAN4 Meeting #97-e *R4-2014782***

**Electronic Meeting, 2nd Nov. 2020 – 13th Nov. 2020**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **38.101-3** | **CR** | **0374** | **rev** | **-** | **Current version:** | **16.5.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

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|  |
| ***Title:***  | CR introduction completed band combinations for Dual Connectivity (DC) of 5 bands LTE inter-band CA (5DL/1UL) and 1 NR band (1DL/1UL) |
|  |  |
| ***Source to WG:*** | Samsung |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | DC\_R17\_5BLTE\_1BNR\_6DL2UL-Core |  | ***Date:*** | 2020-11-08 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** |  |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | Completed new DC inter-band combinations for Dual Connectivity (DC) of 5 bands LTE inter-band CA (5DL/1UL) and 1 NR band (1DL/1UL) are introduced into TS 38.101-3 in RAN4 #97e meeting. |
|  |  |
| ***Summary of change:*** | The EN-DC band combinations DC\_1A-3A-7A-8A-40C\_n78A completed in the following contritbuions are added from RAN4 #97-e meetingR4-2015282 TP to TR 37.717-51-11 DC\_1A-3A-7A-8A-40C\_n78A |
|  |  |
| ***Consequences if not approved:*** | The requirements for above band combinations are incomplete. |
|  |  |
| ***Clauses affected:*** | 5.5B.4.5, 6.2B.4.2.3.5, 7.3B.3.3.5 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  |  |
| ***affected:*** | **X** |  |  Test specifications | TS 38.521-3  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

## <Unchanged sections omitted>

#### 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-8A-40A\_n78ADC\_1A-3A-7A-8A-40C\_n78A | DC\_1A\_n78ADC\_3A\_n78ADC\_7A\_n78ADC\_8A\_n78ADC\_40A\_n78A |
| DC\_1A-3A-7A-20A\_n28A-n78A2,3 | DC\_1A\_n28ADC\_1A\_n78ADC\_3A\_n28ADC\_3A\_n78ADC\_7A\_n28ADC\_7A\_n78ADC\_20A\_n28ADC\_20A\_n78A |
| DC\_1A-3A-7A-28A\_n5A-n78ADC\_1A-3A-7C-28A\_n5A-n78ADC\_1A-3C-7A-28A\_n5A-n78ADC\_1A-3C-7C-28A\_n5A-n78A | DC\_1A\_n5ADC\_1A\_n78ADC\_3A\_n5ADC\_3C\_n5ADC\_3A\_n78ADC\_3C\_n78ADC\_7A\_n5ADC\_7C\_n5ADC\_7A\_n78ADC\_7C\_n78ADC\_28A\_n5ADC\_28A\_n78A |
| DC\_1A-3A-7A-28A\_n7A-n78A | DC\_1A-n7ADC\_3A-n7ADC\_7A-n7A4DC\_28A\_n7ADC\_1A\_n78ADC\_3A\_n78ADC\_7A\_n78ADC\_28A\_n78A |
| DC\_1A-3C-7A-28A\_n7A-n78A | DC\_1A-n7ADC\_3A-n7ADC\_3C-n7ADC\_7A-n7A4DC\_28A\_n7ADC\_1A\_n78ADC\_3A\_n78ADC\_3C\_n78ADC\_7A\_n78ADC\_28A\_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.NOTE 4: Only single switched UL is supported. |

## <Unchanged sections omitted>

###### 6.2B.4.2.3.5 ΔTIB,c for EN-DC six bands

Table 6.2B.4.2.3.5-1: ΔTIB,c due to EN-DC (six bands)

|  |  |  |
| --- | --- | --- |
| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔTIB,c (dB) |
| DC\_1-3-7-8-40\_n78 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.5 |
| 8 | 0.6 |
| 40 | 0.31 |
| n78 | 0.81 |
| DC\_1-3-7-20\_n28-n78 | 1 | 0.7 |
| 3 | 0.7 |
| 7 | 0.7 |
| 20 | 0.6 |
| n28 | 0.6 |
| n78 | 0.8 |
| DC\_1-3-7-28\_n7-n78 | 1 | 0.7 |
| 3 | 0.7 |
| 7 | 0.7 |
| 28 | 0.6 |
| n7 | 0.7 |
| n78 | 0.8 |
| NOTE 1: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. |

## <Unchanged sections omitted>

##### 7.3B.3.3.5 ΔRIB,c for EN-DC six bands

Table 7.3B.3.3.5-1: ΔRIB,c due to EN-DC (six bands)

|  |  |  |
| --- | --- | --- |
| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔRIB,c (dB) |
| DC\_1-3-7-8-40\_n78 | 1 | 0.2 |
| 3 | 0.2 |
| 7 | 0 |
| 8 | 0.2 |
| 40 | 0.41 |
| n78 | 0.51 |
| DC\_1-3-7-20\_n28-n78 | 1 | 0.2 |
| 3 | 0.2 |
| 7 | 0.2 |
| 20 | 0.2 |
| n28 | 0.2 |
| n78 | 0.5 |
| DC\_1-3-7-28\_n7-n78 | 1 | 0.2 |
| 3 | 0.2 |
| 7 | 0.2 |
| 28 | 0.2 |
| n7 | 0.2 |
| n78 | 0.5 |
| NOTE 1: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. |

## <Unchanged sections omitted>