**3GPP TSG-RAN WG4 Meeting #99e R4-210xxxx**

**Electronic Meeting, 19th - 27th May, 2021**

**Title: [**Draft] Reply LS on the Intra-band and Inter-band (NG)EN-DC/NE-DC Capabilities

**Release:** Rel-15

**Work Item:** NR\_newRAT-Core

**Source:** RAN4

**To:** RAN2

**Cc:** RAN1

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**1. Overall Description**

RAN4 kindly thanks RAN2 for the LS on the Intra-band and Inter-band (NG)EN-DC/NE-DC capabilities, and RAN4 reaches a common understanding on the three concerned RAN4 capability IEs, i.e., *dualPA-Architecture*, *simultaneousRxTxInterBandENDC*, and *asyncIntraBandENDC*, in the questions. The detailed answers to the RAN2 questions are shown below:

**Question 1**: For which (NG)EN-DC/NE-DC BC types the above capabilities *(ul-TimingAlignmentEUTRA-NR/ pa-PhaseDiscontinuityImpacts /dualPA-Architecture/ /simultaneousRxTxInterBandENDC /asyncIntraBandENDC )* are applicable?

**Answer**: From RAN4 perspective,

* *dualPA-Architecture* is applicable to (NG)EN-DC/NE-DC BC Type 1, Type 2 and Type 5,
* *simultaneousRxTxInterBandENDC* is applicable to (NG)EN-DC/NE-DC BC Type 2, Type 3 and Type 4,
* *asyncIntraBandENDC* is applicable to (NG)EN-DC/NE-DC BC Type 1, Type 2, Type 3 and Type 5.

**Question 2**: If the capability *ul-TimingAlignmentEUTRA-NR/ pa-PhaseDiscontinuityImpacts /dualPA-Architecture/ asyncIntraBandENDC* are applicable to the (NG)EN-DC/NE-DC BC Type 1/2/3, whether they are used to indicate the restriction to the intra-band (NG)EN-DC/NE-DC BC part?

**Answer:** Yes, *dualPA-Architecture/ asyncIntraBandENDC* are used to indicate the restriction to the intra-band (NG)EN-DC/NE-DC BC part.

**2. Actions:**

**ACTION:** RAN4 kindly asks RAN2 to consider answers of above for RAN2 future work.

**3. Date of Next TSG-RAN4 Meetings:**

3GPP RAN4#100-e 16 – 27 Aug 2021 Electronic Meeting

3GPP RAN4#101-e 1 – 12 Nov 2021 Electronic Meeting