**3GPP TSG RAN WG2 Meeting #116bis-e *R2-220xxxx***

Electronic meeting, 17th -25th January, 2022

**Title: LS on NR UDC for CU-CP/UP splitting scenario**

**Release:** Rel-17

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

**Source:** [to be] RAN2

**To:** RAN3

**Cc:** -

**Contact Person:**

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**Attachments:**

**1. Overall description:**

RAN2 is working on introducing NR UDC in Rel-17.

One issue RAN2 discussed was on NR UDC for CU-CP/UP splitting scenario. Regarding its potential impact, RAN2’s understanding is that some parameters need to be configured per RLC-AM DRB from CU-CP to CU-UP, i.e.,:

* ***bufferSize***: indicates the buffer size applied for UDC as will be specified in TS 38.331, value range is {2kbytes, 4kbytes, 8kbytes}, and one spare value is reserved.
* ***dictionary***: the type is ENUMERATED {sip-SDP, operator}. It indicates which pre-defined dictionary is used for UDC as will be specified in TS 38.323 and 38.331. The value *sip-SDP* means that UE shall prefill the buffer with standard dictionary for SIP and SDP, and the value *operator* means that UE shall prefill the buffer with operator-defined dictionary.
* ***drb-ContinueUDC***: the type is ENUMERATED {true} as will be specified in TS 38.331. It indicates whether the PDCP entity continues or resets the uplink data compression protocol during PDCP re-establishment. The field is configured only in case of resuming an RRC connection or reconfiguration with sync, where the PDCP termination point is not changed and the fullConfig is not indicated.

RAN2 understands that the decision as well as the required specification work to support NR UDC for CU-CP/UP splitting scenario are up to RAN3.

**2. Actions:**

**To 3GPP RAN3**

**ACTION:**

RAN2 kindly asks RAN3 to take the above information into account, and decide whether to support NR UDC for the CU-CP/UP splitting scenario, and if yes, complete related work.

**3. Date of next TSG RAN WG2 meetings:**

RAN2#117-e 21st February to 3rd March 2022, E-meeting

RAN2#118-e 16th to 27th May 2022, E-meeting