**3GPP TSG RAN WG2#115-e draftR2-2109218**

**e-Meeting, 9th - 27th August, 2021**

**Title:** LS on capability related RAN2 agreements for RedCap

**Response to:**

**Release:** Rel-17

**Work Item:** Support of reduced capability NR devices (NR\_redcap-Core)

**Source:** Ericsson (to be RAN2)

**To:** RAN1, RAN4

**Cc:**

**Contact person:** Tuomas Tirronen, tuomas.tirronen (at) ericsson.com

**Send any reply LS to:** 3GPP Liaisons Coordinator, <mailto:3GPPLiaison@etsi.org>

**Attachments:** None

# 1 Overall description

RAN2 has discussed the objective for framework for reduced capabilities in RAN2#114-e and RAN2#115-e and would like to inform RAN1 and RAN4 about the following agreements related to UE capabilities:

RAN2#114-e:

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| Agreements online:  1. RAN2 Working Assumption: by default, all non-RedCap UE capabilities are applicable for RedCap UE, and therefore only for non-RedCap capabilities that are not appliable for RedCap UE, we clarify in the definitions for parameters in TS38.306, the value or feature is not applicable for RedCap UE |

RAN2#115-e:

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| Agreements:  1. The number of DRBs supported by RedCap UEs is less than legacy value (which is 16). There will be a single mandatory value (FFS if 4 or 8). FFS if it will be possible to have an optional capability  2. “RRC processing delay” is not relaxed for RedCap UE  3. PDCP/RLC AM 12 bits SN is mandatory for RedCap UE, and PDCP/RLC AM 18bits SN is optional supported by RedCap UE; FFS on how to capture this in specification  4. NE-DC, and (NG)EN-DC are not supported by RedCap UE; FFS on how to capture it in the specification[  5. DAPS and CAPC related capabilities are not applicable for RedCap UE; [8/20] FFS on CHO. FFS on how to capture this in the specification;  Agreements via email - from offline 109:  1. Maximum 8 DRBs is mandatory supported by RedCap UEs.  2. From RAN2 perspective, inter RAT mobility related capabilities are applicable for RedCap UE;  3. From RAN2 perspective, measurement related capabilities are applicable for RedCap UE;  4. From RAN2 perspective, URLLC related capabilities are applicable for RedCap UE except those affected by CA/DC;  5. From RAN2 perspective, IAB related capabilities are not applicable for RedCap UE, i.e. the RedCap UE is not expected to act as IAB node;  6. Do not introduce capability signalling on the supported Rx number for RedCap UE since the number of Rx branches for RedCap is implicitly indicated by the corresponding capability parameter maxNumberMIMO-LayersPDSCH in the existing UE capability framework; |

RAN2 would like to respectfully ask RAN1 and RAN4 to provide their feedback, if any, on the above agreements.

Additionally, RAN2 would like to ask RAN1 and RAN4 whether there are any Rel-15 and/or Rel-16 UE features or capabilities which should not be applicable for RedCap UEs?

# 2 Actions

**To RAN1 and RAN4:**

**ACTION:** RAN2 respectfully asks RAN1 and RAN4 to provide feedback on the RAN2 agreements related to above UE capabilities, if any.

**ACTION:** RAN2 respectfully asks RAN1 and RAN4 whether there are any Rel-15 and/or Rel-16 UE features or capabilities which should not be applicable for RedCap UEs?

# 3 Dates of next TSG-RAN WG2 meetings

TSG-RAN WG2 Meeting #116-e 1st – 11th November 2021 Online

TSG-RAN WG2 Meeting #117 2022 TBD