**3GPP TSG-RAN WG1 Meeting #105-eR1-210xxxx**

**e-Meeting, 10th – 27th May 2021**

**Title:** [Draft] LS on RAN1 agreements on RAN2-led features for RedCap

**Response to:**

**Release:** Rel-17

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

**Source:** NTT DOCOMO, INC. [to be RAN1]

**To:** RAN2

**Cc:**

**Contact person:** Shinya Kumagai, shinya.kumagai (at) docomo-lab.com

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

**Attachments:**

# 1 Overall description

RAN1 discussed RAN1 aspects on RAN2-led features for RedCap and agreed to send RAN2-related agreements to RAN2 to facilitate their work on RAN2-led features for RedCap. RAN1 respectfully asks RAN2 to take the agreements into account in their further work on RAN2-led features for RedCap.

Followings are the agreements/working assumptions on RAN1 aspects on RAN2-led features for RedCap made in RAN1#105-e meeting:

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| Working assumption:   * For 4-step RACH, support the early indication of RedCap UEs at least in Msg1.   + The early indication in Msg1 can be configured to be enabled/disabled     - FFS How to support enable/disable the early indication   + FFS details e.g.:     - separate initial UL BWP     - separate PRACH resource     - PRACH preamble partitioning   + FFS the possibility of supporting Msg3 for the early indication   Agreement:   * Early indication of RedCap UEs in Msg1 can be enabled/disabled via SIB   Agreement:   * Support 2-step RACH for RedCap UEs as an optional feature   + FFS details of early indication in MsgA, e.g.:     - Separation of 2-step RACH resources or MsgA preambles     - Separation of initial UL BWP     - Using a new indication in MsgA PUSCH part   + Note: Discussion on 4-step RACH for early indication should be prioritised   **Working assumption:**   * RedCap UE type is defined based on one of the following options   + Option 2: Only include the reduced capabilities that the network needs to know during initial access, if any.   + Option 4: The corresponding minimum set of the reduced capabilities that one RedCap UE type shall mandatorily support   + FFS: details of the set of reduced capabilities |

For reference, RAN1 also agreed following RAN2-related agreements in RAN1#105-e meeting:

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| [TBD] |

# 2 Actions

**To RAN2:**

**ACTION:** RAN1 respectfully asks RAN2 to take the above into account in their further work on RAN2-led features for RedCap.

# 3 Dates of next TSG-RAN WG1 meetings

TSG-RAN WG1 Meeting #106-e 16th – 27th August 2021 Online

TSG-RAN WG1 Meeting #106bis-e 11th – 19th October 2021 Online