**3GPP TSG RAN WG1 Meeting #112bis-e R1-23xxxxx**

**e-Meeting, 17th – 26th April 2023**

**Title:** [Draft] LS on Msg4 PDSCH transmission to Rel-18 eRedCap UEs

**Response to:**

**Release:** Rel-18

**Work Item:** Enhanced support of reduced capability NR devices (NR\_redcap\_enh-Core)

**Source:** Ericsson [to be RAN1]

**To:** RAN2

**Cc:**

**Contact person:** Johan Bergman, johan (dot) bergman (at) ericsson (dot) com

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

**Attachments:** None

# 1 Overall description

RAN1 discussed Msg4 PDSCH transmission to Rel-18 eRedCap UEs and made the following agreement:

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| --- |
| AgreementConfirm the following working assumption by assuming that Msg3 indication is availableWorking Assumption* For UE BB complexity reduction, a UE is able to receive a Msg4 PDSCH resource allocation spanning a bandwidth of more than ~5 MHz per slot.
	+ The UE is not required to process a Msg4 PDSCH with a larger number of PRBs than 25 PRBs for 15 kHz SCS and 12 PRBs for 30 kHz SCS.
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RAN1 would like to inform RAN2 about the following case, to specify, if needed, the UE behavior in the RAN2 specifications, and ask RAN2 for feedback if any:

* For UE BB complexity reduction, the case when the UE detects a DCI scheduling a Msg4 PDSCH transmission with a larger bandwidth than it can receive or process

The case was also discussed in RAN1 in Question 2.7-2b of summary [R1-2303936](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_112b-e/Docs/R1-2303936.zip).

# 2 Actions

**To RAN2:**

**ACTION:** RAN1 respectfully requests RAN2 to take the above into account in their future work and to provide feedback to RAN1 if any.

# 3 Dates of next TSG-RAN WG1 meetings

TSG-RAN WG1 Meeting #113 22nd – 26th May 2023 Incheon, KR

TSG-RAN WG1 Meeting #114 21st – 25th August 2023 Toulouse, FR