3GPP TSG RAN WG2 Meeting #109bis-e R2-2003763

Electronic, 20th – 30th April 2020

**Title:** **[Draft] LS on RAN2 DCP Open Issues**

**Release: Release 16**

**Work Item: NR\_UE\_pow\_sav-Core**

**Source: InterDigital**

**To: RAN WG1**

**Contact person: Dylan Watts**

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# 1 Overall description

RAN2 has been discussing remaining issues related to DCP, and would like to inform RAN1 of the following discussions/agreements:

**1. Collision between DCP and RAR with C-RNTI during BFR**

RAN2 has discussed UE behavior when a DCP monitoring occasion overlaps with the *ra-ResponseWindow* or *msgB-ResponseWindow*. RAN2 understanding is that according to current TS 38.213 prioritization rules, if DCP collides with RAR with C-RNTI (i.e. during BFR) and the search spaces are not quasi-collocated, DCP will be prioritized as it is type-3 CSS and thus impacting legacy RAR behavior.

RAN2 would like to ask RAN1 the following:

* To confirm RAN2 understanding that if DCP and RA search spaces are not quasi-collocated, a collision between DCP and RAR during BFR (which is addressed to C-RNTI) will impact legacy RAR handling. If this is understanding is correct, what is the correct UE behavior?
* If RAN1 concludes that DCP should not be prioritized over RAR with C-RNTI during BFR, what is RAN1 preference on where to capture this behavior e.g. TS 38.213 or in TS 38.321 via a DCP monitoring exception rule similar to overlap with DRX Active time?

**2. RAN2 agreements**

RAN2 would also like to inform RAN1 of the following agreements:

**Agreements**

1 RAN2 confirms that the flags ps-TransmitPeriodicL1-RSRP and ps-TransmitPeriodicCSI are defined per cell group

2 The flags ps-TransmitPeriodicCSI and ps-TransmitPeriodicL1-RSRP are independent, and it is possible to control UE to report all types of periodic CSI apart from L1-RSRP (i.e. cri-RSRP and ssb-Index-RSRP)

3 The flag ps-TransmitPeriodicCSI is renamed to ps-TransmitOtherPeriodicCSI

# 2 Actions

**To RAN WG1:**

**ACTION:** RAN2 respectfully requests RAN1 to:

* To confirm RAN2 understanding that if DCP and RA search spaces are not quasi-collocated, a collision between DCP and RAR during BFR (which is addressed to C-RNTI) will impact legacy RAR handling. If this is understanding is correct, what is the correct UE behavior?
* If RAN1 concludes that DCP should not be prioritized over RAR with C-RNTI during BFR, what is RAN1 preference on where to capture this behavior e.g. TS 38.213 or in TS 38.321 via a DCP monitoring exception rule similar to overlap with DRX Active time?
* Take into consideration the agreements listed above.

# 3 Dates of next TSG RAN WG 2 meetings

RAN2#110-e 1st – 12th June 2020 Online

RAN2#111 24th – 28th August 2020 Toulouse, France