**3GPP TSG-RAN WG2 Meeting #123bis DRAFT R2-230xxxx**

**Xiamen, China, 09 – 13 October 2023**

**Title: [DRAFT]** Reply LS to Reply LS on MAC-CE Based Indication for Cross-RRH TCI State

**Response to:** R4-2314299

**Release:** Release 18

**Work Item:** NR\_HST\_FR2\_enh

**Source:** Nokia [TSG RAN WG2]

**To:** TSG XX WG4

**Cc:**

**Contact Person:**

#### Name: Jarkko Koskela

E-mail Address: jarkko.t.koskela@nokia.com

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

**Attachments:** -

**1. Overall Description:**

RAN2 would like to thank RAN4 on the LS on Reply LS on MAC-CE Based Indication for Cross-RRH TCI State Switch. We discussed the topic and agree following:

**FFS Introduce new MAC CE that has the same payload as “TCI State Indication for UE-specific PDCCH MAC CE” with eLCID. Pending RAN4 clarifications**

In the RAN2 discussion there was no clear understanding regarding answer 3 in the LS why we need a new MAC CE indicating separately “1” and “0” as it looked like case “1” is the only new case that the new MAC CE needs to cover, while case “0” seemed to be similar to behavior of UE in case of receiving the legacy MAC CE (i.e. MAC CE intended for indicating target TCI state for PDCCH in 6.1.3.15) with a possible difference being that UE does not check downlink timing difference. But it caused confusion in RAN2 why NW would send new MAC CE in case “0” where the check would cause UE to not apply large one shot UL adjustment as it seems expected that NW knows that in this scenario timing difference is small and legacy MAC CE could be sent to the UE with the same end result.

If this is the case then it would simplify RAN2 work as we could just introduce new MAC CE with the same contents of the legacy MAC CE with just a new (e)LCID (i.e.to correspond to MAC CE with “1” as described in the LS R4-2314299) and avoid designing a new MAC CE with an extra octet indicating value “1” or value “0” explicitly and thus causing extra overhead.

**2. Actions:**

**To RAN4 group.**

**ACTION:** RAN2 respectfully asks RAN4 to clarify if it would be possible to design new MAC CE to only correspond to case “1” as presented in R4-2314299

**3. Date of Next TSG-RAN WG2 Meeting:**

RAN2#124 from 2023-11-13 to 2023-11-17 Chicago, US

RAN2#125 from 2024-02-26 to 2024-3-1 Athens, GR