**3GPP TSG-RAN WG3 Meeting#108-e R3-204352**

**1st – 12th June 2020**

Title: Response LS on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI

Response to: R3-196406/R2-1914021

Release: Release 16

Work Item: NR\_CLI\_RIM

Source: RAN3

To: RAN2, RAN1

Cc: RAN4

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Attachments: R3-203802, R3-203632

RAN3 thanks RAN2 for the LS on inter-gNB exchange of SRS configuration for UE CLI measurement.

RAN3 cannot reach a consensus on whether the existing signaling solution for CLI management needs to be enhanced. Several options for the coordination with neighboring nodes of the SRS resource configuration were brought up in the discussion.

Option 1 is the network signalling solution in the attached RAN3 CRs, based on the inter-gNB exchange of the *SRS-Config* IE, defined in TS 38.331.

Option 2 is O&M based solution which means that O&M configures the neighbor’s SRS resource configuration .

Option 3 is not to make any enhancement on the existing signaling solution. Due to the UE mobility, the need to exchange interference measurement results, and the need for further coordination based on the measurement results, the solution based on SRS resource exchange requires tight coordination between the schedulers of the involved cells, which cannot be achieved via a standardized interface.

For further analysis of the need of network signaling for SRS configuration transfer, RAN3 would like to ask the following questions:

**Question to RAN1:**

* What is the maximum frequency of inter-gNB exchange of SRS configuration expected required to enable configuration of SRS-RSRP measurements of potential CLI aggressor cells in served UEs?

**Question to RAN2:**

* What is the update frequency of SRS configuration in a UE for UL scheduling?
* What is the normal and maximum measurement period for neighbour cell’s SRS-RSRP measurement by victim UEs?
* Does the exchange of SRS configurations require the exchange of measurement results?
* After determining the mutually interfering UEs, a coordinated action between serving nodes may be necessary (e.g. deciding which UE should back off from the compromised resources). How should this coordination be executed?
* In case further coordination between RAN nodes is necessary, how is this handled in case where the UEs from more than two cells interfere each other?

**2. Actions:**

To RAN1 and RAN2 groups:

**ACTION:**  RAN3 kindly asks RAN1 and RAN2 to provide feedback on above questions.

**3. Date of Next RAN3 Meetings:**

RAN3#109-e 17 – 28 August 2020 Online

RAN3#110-e 2 – 13 November, 2020 Online