**3GPP TSG-RAN WG2 Meeting #127bis R2-** **2409308**

**Hefei, China, Oct 14th – 18th, 2024**

**Title: [DRAFT]** LS on Relaxed measurement

**Response to:** -

**Release:** Release 16

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

**Source:** LG Electronics [to be: TSG RAN WG2]

**To:** TSG RAN4

**Cc:**

**Contact Person:**

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**Attachments:** -

**1. Overall Description:**

RAN2 has discussed about the scenarios for the Rel-16 RRM relaxation in Idle/Inactive state during the RAN2#127bis meeting.

As a conclusion, RAN2 has in-principle agreed the CR to TS38.304 [1], removing the description of conditions when measurements are relaxed and adding a reference to RAN4 specification. During the discussion, RAN2 noticed that RAN4 specification defines a behaviour for the condition “if the serving cell measurement is better than s-NonIntraSearch thresholds but the cell-edge criteria is not fulfilled”. From RAN2 point of view, the case “if UE measurements are better than s-NonIntraSearch threshold but the cell-edge criteria is not fulfilled” will not happen and cannot happen because of the following field description for ***s-SearchThresholdP*** and ***s-SearchThresholdQ*** in TS38.331.

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| ***s-SearchThresholdP, s-SearchThresholdP2***  Parameters "SSearchThresholdP" and "SSearchThresholdP2" in TS 38.304 [20]. The network configures *s-SearchThresholdP* and *s-SearchThresholdP2* to be less than or equal to *s-IntraSearchP* and *s-NonIntraSearchP*. |
| ***s-SearchThresholdQ, s-SearchThresholdQ2***  Parameters "SSearchThresholdQ" and "SSearchThresholdQ2" in TS 38.304 [20]. The network configures *s-SearchThresholdQ* and *s-SearchThresholdQ2* to be less than or equal to *s-IntraSearchQ* and *s-NonIntraSearchQ*. |

**2. Actions:**

**To RAN4.**

**ACTION:** RAN2 respectfully asks RAN4 to take the above into consideration and inform that RAN4 can update their part of their specs, if they see a need.

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

RAN2#128 from 2024-11-18 to 2024-11-22 USA, Orlando

RAN2#129 from 2025-02-17 to 2024-02-21 Greece, Athens

**4. Reference:**

[1] R2-2409282 - 38304\_CR0412\_Rel-16\_Correction to relaxed measurement