**3GPP TSG-RAN WG4 Meeting #111 R4-XXXXXX**

**Fukuoka City, Fukuoka , Japan, 20th – 24th May, 2024**

**Title:** Reply LS to RAN2 on RRM enhancements for NR FR2 HST

**Response to:** R2-2403963

**Release:** Release 18

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

**Source:** RAN4

**To:** RAN2

**Cc:**

**Contact Person:**

**Name: Dan Liu**

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

**Attachments:** -

**1. Overall Description:**

RAN4 would like to thank RAN2 for their LS in R2-2403963 and provide response to the following question asked by RAN2.

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| **2. Actions:**  **To RAN4 group:**  **ACTION:** RAN2 respectfully ask RAN4 whether gNB should enable RRM enhancements for all serving cells in the same frequency band (i.e. intra-band CA) in consistent manner. |

RAN4 extensively discussed the issue raised by RAN2 and agreed that:

* In FR2 HST, gNB should enable RRM enhancements for all serving cells in the same frequency band (i.e. intra-band CA) in consistent manner, i.e.,
  + The presence of highSpeedMeasFlagFR2 should be the same for all serving cells in the same frequency band
    - If highSpeedMeasFlagFR2 is present, the configured parameters for FR2 HST, i.e., set 1 or set 2, should be the same for all serving cells in the same frequency band

**2. Actions:**

**To RAN2 group.**

**ACTION:** RAN4 respectfully asks RAN2 to take above agreements into account in their specification work.

**3. Date of Next TSG-RAN WG4 Meeting:**

TSG RAN WG4 Meeting #112 19 - 23 August 2024 Maastricht, NL

TSG RAN WG4 Meeting #112bis 14 - 18 October 2024 China