**3GPP TSG-RAN WG2 Meeting #130 R2-250xxxx**

**St.Julians, Malta, May 19th – 23rd, 2025**

**Title:** Reply LS on CSSF optimization for NR RRM Phase 5

**Response to:** R2-2501739/R4-2502662

**Release:** Rel-19

**Work Item:** NR\_RRM\_Ph5-Core

**Source:** RAN2

**To:** RAN4

Cc:

**Contact person:** Fangli XU, fangli\_xu@apple.com

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

**Attachments:** None

# 1 Overall description

RAN2 have discussed the RRC configuration to support the CSSF optimization and reached the following agreements:

* Introduce the UE specific RRC configuration (per UE) to enable/disable the CSSF optimization feature.

About the Network indication of a specific SCC per-band for measurement, RAN2 discussed the following two alternatives:

* Alternative 1: Introduce new RRC configuration to indicate which SCC to be measured.
  + When CSSF optimization feature is enabled, UE only performs the serving and intra-frequency neighbor measurement on the indicated SCC per band.
* Alternative 2: No additional RRC signaling is needed.
  + When CSSF optimization feature is enabled, UE follows the existing RAN4 rule (defined in clause 9.2.3.2 of TS 38.133) below to select the SCC to perform both serving and intra-frequency neighbor mesaurement.

|  |
| --- |
| - One of the SCCs on which UE is configured to report SSB based measurements when neither PCC nor PSCC is in the same band, so that the selected SCC shall be an SCC where the UE is configured with SS-RSRP measurement reporting if such SCC exists, otherwise the selected SCC is determined by UE implementation. |

Majority’s view in RAN2 is Alternative 2, but RAN2 did not reach a consensus.

Therefore, RAN2 would like to ask RAN4 to decide which alternative to adopt for SCC indication and provide feedback during August meeting so that RAN2 can prepare the RRC CR for approval in August meeting.

# 2 Actions

**To RAN4:**

**ACTION:** RAN2 respectfully asks RAN4 to decide which alternative to adopt for SCC indication and provide feedback during August meeting.

# 3 Dates of next TSG-RAN WG4 meetings

TSG-RAN WG2 Meeting #131 August 25 – August 29, 2025 India (TBC), IN

TSG-RAN WG2 Meeting #131bis October 13 – October 17, 2025 Prague, CZ