3GPP TSG-RAN Meeting # 99-e R4-2108230

Electronic Meeting, May. 19 – 27, 2021

**Title: LS on RRM relaxation in power saving**

**Response to:**

**Release: Rel-16**

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

**Source:** **RAN WG4**

**To: RAN WG2**

**Cc:**

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**Attachments:** -

# 1 Overall description

RAN4 found there is inconsistency between RAN2 and RAN4. RAN4 would like to inform RAN2 about the RAN4 requirements on relaxation of higher priority carriers when the *lowMobilityEvalutation* criterion is fulfilled and when *highPriorityMeasRelax* is configured for inter-frequency measurements or inter-RAT measurements.

According to current RAN4 specification, for inter-frequency measurements/inter-RAT measurements for UE fulfilling only low mobility criterion:

* When Srxlev > SnonIntraSearchP and Squal > SnonIntraSearchQ and the UE is configured with *highPriorityMeasRelax* then the UE shall search for inter-frequency layers/E-UTRA inter-RAT frequency layers of higher priority at least every K2\*Thigher\_priority\_search where,
  + Thigher\_priority\_search = (60 \* Nlayers) in clause 4.2.2.7 of 38.133,
  + Nlayers is the total number of higher priority NR and E-UTRA carrier frequencies broadcasted in system information,
  + K2 = 60.
* When Srxlev > SnonIntraSearchP and Squal > SnonIntraSearchQ and the UE is not configured with *highPriorityMeasRelax* then the UE shall search for inter-frequency layers/E-UTRA inter-RAT frequency layers of higher priority at least every Thigher\_priority\_search

# 2 Actions

**To RAN WG2**

**ACTION:** RAN4 respectfully asks RAN2 to take the above RAN4 requirements into account in their future work.

# 3 Dates of next TSG-RAN WG4 meetings

TSG-RAN4 #100-e Aug 16 - Aug 27, 2021 Electronic Meeting

TSG-RAN4 #101-e Nov 01 - Nov 12, 2021 Electronic Meeting