3GPP TSG-RAN WG4 Meeting #95-e R4-2009132

Electronic Meeting, 25 May – 05 June, 2020

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

**Response to:** R2-2005855

**Release:** Release 16

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

**Source:** TSG RAN WG4

**To:** TSG RAN WG2

**Cc:**

**Contact Person:**

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# 1 Overall description

RAN4 thanks RAN2 for the LS R2-2005855 [1]. RAN4 has further discussions on UE power saving and the following conclusions are achieved:

The measurement relaxation method for higher priority or equal/lower priority applies to inter-RAT measurement with higher priority or equal/lower priority.

RAN4 concludes that it is up to RAN2’s decision on whether to introduce carrier specific threshold for inter-frequency measurement relaxation.

Regarding the impact of EMR on UE power saving, RAN4’s conclusion is that measurements on EMR carriers should not be relaxed if T331 is running.

RAN4 concludes that when network configures both low mobility and not-at-cell-edge criteria, if network indicates option b, the relaxation method corresponding to scenario #3 will be used when both relaxation criteria have been fulfilled

When Srxlev > SnonIntraSearchP and Squal > SnonIntraSearchQ and only criteria of low mobility is configured, if the low mobility criteria is fulfilled,

UE is not required to do any lower and equal priority inter-frequency/inter-RAT measurement

When NW indicates that higher priority carrier measurements can be relaxed (highPriorityMeasRelax), UE measures higher priority inter-frequency/inter-RAT layers at least every 1 hour

When NW does not indicate that higher priority carrier measurements can be relaxed, UE measures higher priority inter-frequency/inter-RAT layers at least every Thigher\_priority\_search (60 sec)

RAN4 kindly asks RAN2 to take RAN4’s conclusions into account.

# 2 Actions

**To RAN2 group.**

**ACTION**: RAN4 kindly asks RAN2 to take RAN4’s conclusions into account.

# 3 Dates of next TSG RAN4 meetings

TSG-RAN WG4 Meeting #96-e August 17 – 28, 2020 E-meeting

TSG-RAN WG4 Meeting #97-e Nov.02 –14, 2020 E-meeting

# 4 References

[1] R2-2005855 LS, RAN2 #110-e, June, 2020.