3GPP TSG RAN WG2 Meeting #119-e R2-220xxxx

Electronic, 17–29 August, 2022

**Title: LS on support of positioning in FR2-2**

**Response to: -**

**Release: Rel-17**

**Work Item: NR\_pos\_enh-Core, NR\_ext\_to\_71GHz**

**Source: Samsung [to be RAN WG2]**

**To: RAN WG1, RAN WG4**

**Cc: -**

**Contact person: Taeseop Lee**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments:** -

# 1 Overall description

In R17, NR operation is extended up to 71 GHz and new numerologies (i.e., 480 kHz SCS, 960 kHz SCS) are introduced in FR2-2 (52.6 GHz–71 GHz) for data and control channels and reference signals. Moreover, FR2-2 is assumed to be applicable to other Rel-17 features unless otherwise specified based on the below agreement from 71GHz WI in RAN2.

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| From chairman’s note in RAN2#117-e meeting,  *Applicability of FR2-2 to other Rel-17 features*  **4.3-1: From RAN2 point of view, FR2-2 are assumed to be also applicable to other Rel-17 features, unless otherwise specified (e.g. if the feature is only for FR1). No impact to the specification expected for cases where we don't specify otherwise.**  **Companies can bring up cases (e.g. for some WIs where FR2-2 has not been discussed at all) where differentiation is needed by contributions to May meeting.** |

On the other hand, in POS WI, there has been no discussion on the support of positioning (especially related to RAT-dependent positioning) in FR2-2 and thus it is unclear whether SRS for positioning/DL-PRS can be used with the new 480/960 kHz SCS in FR2-2 or not.

Based on the above observation, RAN2 would like to ask the following question:

Question: Can SRS for positioning/DL-PRS with 480/960 kHz SCS be supported in FR2-2 in R17?

# 2 Actions

**To RAN WG1 and RAN WG4**

**ACTION:** RAN2 respectfully asks RAN1 and RAN4 to take the above into account and provide feedback on RAN2’s question.

# 3 Dates of next RAN WG2 meetings

RAN2#119bis 10–19 October 2022, Electronic meeting (Note that only Rel-18 discussion will take place)

RAN2 #120 14–18 November 2022, Europe