**3GPP TSG RAN WG1#105-e R1-21xxxxx**

**e-Meeting, May 10th – 27th, 2021**

**Title:** DRAFT LS on how to introduce the 52.6-71GHz frequency range

**Release:** 17

**Work Item:** NR\_ext\_to\_71GHz-Core

**Source:** TSG RAN WG1

**To:** TSG RAN

**Cc:** TSG RAN WG2, TSG RAN WG4

**Contact person:** Alexander Golitschek

aelbwart @ lenovo.com

# 1 Overall description

Following up on the conclusion from RAN#91E ("RAN1, RAN2 and RAN4 are asked to provide its analysis or recommendation to RAN#92E (June) on how to introduce the 52.6-71GHz frequency range."), the discussion in RAN1#105-e has identified the following options:

* Extend FR2 to cover the whole frequency range 24.25 - 71 GHz (no new notations)
* Introduce a new notation for the new frequency range 52.6 - 71 GHz, and keep FR2 to denote 24.25 – 52.6 GHz.
* Introduce a new notation for the new frequency range 52.6 - 71 GHz, and extend FR2 to denote 24.25 – 71 GHz.
* Introduce new notations for each of 24.25 - 52.6 GHz and 52.6 - 71 GHz, and extend FR2 to denote 24.25 – 71 GHz.

RAN1 would like to inform RAN about the following RAN1 conclusions:

1. Regarding the impact on specifications maintained by RAN1, there are only relatively small differences between potential options.
2. RAN1 can adapt to other groups' preferences on the notation for 52.6-71 GHz.
3. Regardless of if the frequency range 52.6 to 71 GHz is an extension of FR2 or a new FR, the related UE capabilities and their applicability to the frequency range 52.6 to 71 GHz will have to be analyzed on a case by case basis.

[NOTE: The inclusion of the following point depends on further progress in the ongoing discussion.]

1. [From RAN1's perspective, an easy distinction between features, capabilities and other characteristics in the specifications that apply specifically to the following ranges may be useful:
   * 24.25-52.6 GHz
   * 52.6-71 GHz
   * 24.25-71 GHz]

# 2 Actions

**To TSG RAN WG4**

**ACTION:** RAN1 respectfully asks RAN to consider the above conclusions when deciding how to introduce the 52.6-71 GHz frequency range.

# 3 Dates of next TSG RAN WG1 meetings

TSG RAN WG1 Meeting #106-e 16 - 27 August 2021 Online

TSG RAN WG1 Meeting #106bis-e 11 - 19 October 2021 Online

# 4 Discussion

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