3GPP TSG-RAN WG4 Meeting # 102-e R4-220xxxx

Electronic Meeting, 21 February – 3 March 2022

**Agenda Item:** **9.3.4**

**Source: Nokia**

**Title:** **WF on BS RF requirements**

**Document for:** **Approval**

**1. Background**

Contributions on BS RF TX requirements for 6GHz licensed band in RAN4#102-e have a variety of proposals:

[1] R4-2203646 Proposals on BS RF requirements for introduction of 6GHz licensed band Nokia, Nokia Shanghai Bell

[2] R4-2203691 Remaining issue on RF requirements for BS operating in 6GHz band CATT

[3] R4-2204567 Discussion on BS requirements for 6GHz licensed spectrum CMCC

[4] R4-2205148 BS RF requirements Huawei, HiSilicon, China Unicom

[5] R4-2205455 Discussion on BS RF requirements for 6425-7125MHz ZTE Corporation

The way forward from the discussion of the contributions are summarized as follows.

**2. Way forward**

**2.1 ΔfOBUE and ΔfOOB**

- Option 1: Define ΔfOBUE = 100 MHz and ΔfOOB = 100 MHz for BS type 1-C, type 1-H and type 1-O. (Supported by Huawei, China Unicom, CATT, Spark NZ)

- Option 2: Define ΔfOBUE = 100 MHz for BS type 1-H and type 1-O, and ΔfOBUE = 40 MHz and ΔfOOB = 60 MHz for BS type 1-C. (Supported by Huawei, China Unicom, ZTE, Spark NZ)

- Option 3: Define ΔfOBUE = 40 MHz and ΔfOOB = 60 MHz at least for MR and LA BS type 1-C and type 1-H, and further consider it for WA BS type 1-C and 1-H. (Supported by Nokia)

- Option 4: Postpone decision on ΔfOBUE and ΔfOOB values for all BS classes to next RAN4#103-e meeting*.* (Supported by Nokia, Ericsson)

- Provisional agreements:

 - Define ΔfOBUE = 40 MHz and ΔfOOB = 60 MHz for BS type 1-C.

- Postpone decision on ΔfOBUE and ΔfOOB values for BS type 1-H and type 1-O to next RAN4#103-e meeting. Companies are encouraged to provide technical justifications (e.g., filter data) for their proposals in next meeting.

**2.2 Out-of-band blocking**

- Proposal 1: The blocking level is set to a level of -35 dBm for the frequency range (FUL\_low -500) to (FUL\_low -ΔfOOB) and (FUL\_high +ΔfOOB) to (FUL\_high +500). (yes: Nokia, Huawei; no: ZTE; FFS: Ericsson)

- Proposal 2: To add the new 6GHz licensed band into the operating band list in table 7.5.2-1a of TS 38.104 instead of adding a new NOTE (to include text in proposal 1) in table 7.5.2-1. (yes: Nokia, Huawei, Spark NZ; no: ZTE; FFS: Ericsson)

- Provisional agreements:

- The blocking level is set to a level of [-35] dBm for the frequency range (FUL\_low -500) to (FUL\_low -ΔfOOB) and (FUL\_high +ΔfOOB) to (FUL\_high +500).

- If the above is agreed, to add the new 6GHz licensed band into the operating band list in table 7.5.2-1a of TS 38.104 instead of adding a new NOTE (to include text in proposal 1) in table 7.5.2-1.

**2.3 Measurements uncertainties**

- Agreements:

- Reuse n96 MUs for n104 MUs.

- Can be further confirmed in performance phase.

**2.4 Draft CRs**

- Agreements:

- Focus on the draft CR to 38.104 first.

- Come back to other BS CRs in next meeting.