**3GPP TSG-RAN WG3 Meeting #126 R3-24xxxx**

**Orlando, USA, October 18th – 22th Nov 2024**

**Title: [Draft] LS on RAN3 agreements with impact on UE related to the Rel-19 SON/MDT**

**Response to: N/A**

**Release:** **Rel-19**

**Work Item: NR\_ENDC\_SON\_MDT\_Ph4-Core**

**Source: Samsung (to be RAN3)**

**To: RAN2**

**Cc: N/A**

**Contact Person:**

* + - 1. Name: Lixiang Xu
      2. E-mail Address: lx.xu@samsung.com

**Send any reply LS to: 3GPP Liaisons Coordinator,** <mailto:3GPPLiaison@etsi.org>

1. **Overall Description:**

RAN3 would like to inform RAN2 about progress in 3 topics from the Rel-19 SON/MDT WI:

**(1) Regarding MRO for CHO with candidate SCG(s):**

RAN3 concluded that the following information can be reported by the UE in RLF Report for failure reason detection and optimization:

* The type of the first fulfilled execution condition (e.g. CPAC or CHO). Fulfilment means all events of the type are met.
* Identifier of candidate PCell(s) which met the configured CHO execution conditions when the RLF is encountered
* Identifier of candidate PSCell(s) which met the configured CPAC execution conditions when the RLF is encountered
* The Identifier of candidate PCell(s) or PSCell(s) that fulfilled execution conditions before the RLF is encountered.

1. **Regarding SON/MDT for NTN:**

On **MRO for NTN**, RAN3 sees benefits in including the **fulfilled CHO trigger condition before RLF occurs** in the RLF report, in case of CHO with “time and measurement-based trigger condition” or “location and measurement-based trigger condition”.

On **MDT for NTN**, RAN3 assumes that both of the geographical area and the mapped cell ID can be used as the Area Scope for the logged MDT for NTN over NGAP. Further, RAN3 would like to confirm with RAN2 whether the geographical area defined for MBS NTN can be reused for Area Scope of logged MDT over Uu for NTN, to help RAN3 decide whether to specify geographical area and/or mapped cell ID over NGAP.

**(3) Regarding R18 Leftovers:**

On SON for RA-SDT, RAN3 sees benefits in including in RA Report the **time from the start of RA-SDT until the reporting of the RA report.** The network can use it to determine the configuration that was applied at the time of the start of RA-SDT.

**2. Actions:**

**To RAN2 group.**

**ACTION:** RAN3 kindly asks RAN2 to take the above into consideration and update their specifications as needed. RAN3 also kindly requests RAN2 to provide feedback to the question on MDT for NTN.

**3. Date of Next RAN3 Meetings:**

TSG RAN3 Meeting #127 17-21 February 2025 Athens, Greece

TSG RAN3 Meeting #127bis 7-11 April 2025 Wuhan, China