

Title: On the work scope of Rel-18 NR NTN enhancements

Agenda item: 9.3.2.7
Source: Samsung
Document for: Decision

Background

- According to the WID, RAN#99 needs to check the blue part below:

4.1.1 Coverage enhancement

...

The following sentence **will be revisited in RAN#99** as part of the DL enhancements discussion:

“The evaluation should also taken into account any related regulatory requirements, e.g., ITU limitation of power flux density.” No work on this topic will take place RAN WGs before the discussion on DL enhancements in RAN#99.

- **In RAN1#112, NR-NTN spent much online time than other items with same TU, i.e., UAV and < 5 MHz**
 - NR NTN (240 min.) vs. UAV (105 min.), < 5 MHz (115 min.)
- **Despite of using much time, no agreement was made for NTN-specific PUSCH DMRS bundling**
- **So, there exists no further room to accommodate DL enhancements into the scope of Rel-18 NR-NTN**

- **NR NTN-specific DL coverage enhancements can be discussed in Rel-19**

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Thank you