

**Title: On work scope of Rel-18 NR sidelink evolution**

**Agenda item:** 9.3.1.5  
**Source:** Samsung  
**Document for:** Decision

# Background

- According to the WID, RAN needs to check the blue parts below:

1. Specify mechanism to support **NR sidelink CA operation** based on LTE sidelink CA operation [RAN2, RAN1, RAN4]  
(This part of the work is put on hold until **further checking in RAN#98-e**)
2. Study and specify support of **sidelink on unlicensed spectrum** for both mode 1 and mode 2 where Uu operation for mode 1 is limited to licensed spectrum only [RAN1, RAN2, RAN4]
  - The study should focus on FR1 unlicensed bands (n46 and n96/n102) and is **to be completed by RAN#98**
3. Study and specify enhanced **sidelink operation on FR2 licensed spectrum** [RAN1, RAN2, RAN4] (**Determine in RAN#98-e** whether to continue the study or study + specification work for FR2 until the end of R18)
4. Study and specify, if necessary, mechanism(s) for **co-channel coexistence for LTE sidelink and NR sidelink** including performance, necessity, feasibility, and potential specification impact if any [RAN1, RAN2, RAN4]

- It is impossible to study and/or specify all 4 objectives taking into account the workload and the allocated 2TU.

- **SL CA (Objective 1) is dropped from the scope of Rel-18 NR sidelink evolution**
- **SL on unlicensed spectrum (Objective 2) is focused on FR1 only until the end of Rel-18**
- **The study of SL in FR2 (Objective 3) is continued until the end of Rel-18**

**SAMSUNG**

**Thank you**