

3GPP TSG RAN #98-e

RP-223167

E-meeting, December 12th - 16th, 2022

Agenda Item: 9.3.1.5

Document for: Decision

Discussion on Rel-18 NR sidelink evolution

NTT DOCOMO, INC.

■ WID description (RP-221938)

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Objective

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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)

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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]

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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)

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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]

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■ Checkpoint for two objectives (SL-CA, SL-FR2)

- There would be no/little room to add other objectives
 - » SL-U/Coex were discussed at WG meetings so far. It seems that SL-U/Coex requires full/most time from the allocated TUs to complete specifying these topics in Rel-18
 - » Discussion time to be used for SL-FR2 evaluation methodology was quite limited
- One or more objectives should be deprioritized
 - » Based on the above situation, at least endorsing to start both SL-CA and SL-FR2 with continuing SL-U/Coex would not be realistic decision
 - » At least SL-CA should be dropped; and either dropping also SL-FR2 or focusing on study-only of SL-FR2 is highly recommended. Both can be considered for Rel-19 sidelink
 - » Current SL-FR2 study/work is limited to beam management for licensed spectrum and unicast. If we focus on SL-FR2 study in Rel-18, it may be possible/necessary to update the study target. Meanwhile, it should be noted that available time for SL-FR2 discussion will be still quite limited

Proposal: For NR sidelink evolution,

- ***SL-CA is dropped from Rel-18***
- ***Discuss to agree either dropping SL-FR2 from Rel-18 or focusing on study-only for SL-FR2 in Rel-18***

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