**[90E][25][R17\_sidelink\_scope]**

**Goal: Generate an agreeable way forward and potential revised WID.**

**Issue 1: Mode 2 enhancement for enhanced reliability and reduced latency**

The current objective for Mode 2 enhancement for enhanced reliability and reduced latency is as follows:

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| * Study the feasibility and benefit of the enhancement(s) in mode 2 for enhanced reliability and reduced latency in consideration of both PRR and PIR defined in TR37.885 (by RAN#91), and specify the identified solution if deemed feasible and beneficial [RAN1, RAN2]   + Inter-UE coordination with the following until RAN#90.     - A set of resources is determined at UE-A. This set is sent to UE-B in mode 2, and UE-B takes this into account in the resource selection for its own transmission.   + Note: The study scope after RAN#90 is to be decided in RAN#90.   + Note: The solution should be able to operate in-coverage, partial coverage, and out-of-coverage and to address consecutive packet loss in all coverage scenarios.   + Note: RAN2 work will start after RAN#89. |

The moderator observed that many companies proposed to extend the study on the inter-UE coordination while there are also proposals to start normative work on this topic or defer this study to a future release.

Q1: Do you agree that the study on the inter-UE coordination is extended to RAN#91?

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| Company | Answer | Comment |
| LGE | Yes | On top of the progress made in the last WG meetings, we expect RAN1 can draw meaningful conclusion on the feasibility and benefit of the inter-UE coordination so that normative work scope can be decided in RAN#91. |
| vivo | Yes | We expect that RAN1 can achieve a conclusion in the next quarter, so that the normative work (including RAN2) can start properly. |
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Q2: If you answered yes in Q1, what is your preference to update the objective?

Option 1: Keep the current wording on the scope of inter-UE coordination and just update the study timeline (an example is in [9]).

Option 2: List the schemes in the RAN1 LS [1] as the candidates of the study (an example is in [7]). In this case, please indicate whether to list all the schemes or down select some schemes.

Option 3: Others (please specify).

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| Company | Answer | Comment |
| LGE | Option 1 | As RAN1 progress in Q1/2021 will be made on the basis of the conclusion made so far, no further wording is necessary to refine the scope of the inter-UE coordination. We think the change in [9] is enough. |
| vivo | Option 2 | Listing the schemes identified by RAN1 helps to eliminate some unnecessary arguments in the WG discussions. Nevertheless, it is not necessary to down scope in RAN – that can be handled by RAN1. |
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**Issue 2: Sidelink DRX**

The current objective for sidelink DRX is as follows:

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| . Sidelink DRX for broadcast, groupcast, and unicast [RAN2]   * Define on- and off-durations in sidelink and specify the corresponding UE procedure * Specify mechanism aiming to align sidelink DRX wake-up time among the UEs communicating with each other * Specify mechanism aiming to align sidelink DRX wake-up time with Uu DRX wake-up time in an in-coverage UE |

The moderator observed that there are proposals to add RAN1 as a secondary WG for this objective.

Q3: Do you agree that RAN1 is added as a secondary WG for the objective of sidelink DRX?

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| Company | Answer | Comment |
| LGE | No | We agree that there can be some issues for RAN1 to look into pertaining to sidelink DRX. However, in our view, so far the potential issue is limited to the resource allocation aspect which is already covered in another objective of the approved SID, and having a separate agenda/objective may lead to undesirable parallel discussion on the same topic in RAN1. We think sidelink DRX impact on the resource allocation needs to be treated under the agenda of the power efficient resource allocation considering other RAN1-origniated topics, and if necessary, we can clarify that the existing objective of the resource allocation enhancement also needs to consider impact from other functionalities including sidelink DRX. |
| vivo | Yes | We think it is better to add RAN1 as a secondary WG.  Firstly, DRX may affect not only the resource allocation, but also others such as measurement (CBR/CR, etc.). Putting the RAN1 as a secondary WG encourage RAN1 to check further potential issues. Otherwise, it is risk of potential critical issues being found at a very last stage or even after the stage-2 frozen of RAN1, especially considering that RAN2 has a three-month shift after RAN1 frozen.  Secondly, it helps RAN1 to better manage the work load (e.g., mail threads, etc.), compared with the case of handling the per-meeting LS from RAN2. |
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Q4: If RAN1 is added, do you think the objective content also needs to be updated (an example is in [5])?

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| Company | Answer | Comment |
| vivo | No |  |
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**Others**

Q5: If there are any other aspects that need to be considered in the scope of this email discussion, please specify them.

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| Company | Comment |
| LGE | The target completion of the impacted TR/TS needs to be updated in accordance with Rel-17 timeline which is expected to be updated in this meeting. But this is not an urgent issue in our view and update in the next meeting might be okay as well. |
| vivo | Regarding the fifth objective of WID (i.e., to ensure sidelink operation to be confined in a predetermined geographic area), RAN2 confirms that no extra standard efforts need to be done in RAN towards this objective, as stated in the LS to SA2.  Consequently, the objective can be deleted so that RAN2 can release the related TUs for other objectives. |
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**References**

[1] RP‑202153 LS on Mode 2 enhancements in NR sidelink RAN1

[2] RP‑202217 Scope update for R17 Sidelink Enhancements Futurewei

[3] RP‑202354 Discussion on inter-UE coordination for Rel-17 SL enhancement Intel Corporation

[4] RP‑202378 Views on the WI on NR sidelink enhancement Ericsson

[5] RP‑202562 Discussion of Sidelink DRX on Rel-17 NR Sidelink Enhancements Apple Inc.

[6] RP‑202571 Scope of Rel-17 WI on sidelink enhancement Huawei, HiSilicon

[7] RP‑202644 Discusison on Rel-17 SL enhancememt WID scope vivo

[8] RP‑202673 Views on work scope of Rel-17 NR sidelink enhancement ZTE, Sanechips

[9] RP‑202253 Revised WID on NR Sidelink enhancement LG Electronics