**3GPP TSG RAN WG1 #104-e R1-210xxxx**

**e-Meeting, January 25th – February 5th, 2021**

**Title:** Draft LS on Mode 2 enhancements in NR sidelink

**Response to:**

**Release:** Rel-17

**Work Item:** NR\_SL\_enh-Core

**Source:** LG Electronics [RAN WG1]

**To:** RAN

**Cc:**

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments:** R1-210xxxx.zip (Detailed observations from evaluation results for inter-UE coordination in Mode 2)

**1. Overall Description:**

For NR sidelink enhancement WI, the objective of Mode 2 enhancements is as follows:

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| * + *Study the feasibility and benefit of solution(s) on 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(s) if deemed feasible and beneficial [RAN1, RAN2]*     - *Inter-UE coordination with the following.*       * *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 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.* |

On the objective mentioned above, RAN1 made the following conclusions for feasibility and benefits of inter-UE coordination. Attached is the summary of detailed observations from evaluation results for inter-UE coordination.

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| ***Conclusion****:*   * + *RAN1 concludes that the inter-UE coordination in Mode 2 is feasible, and is beneficial (e.g., reliability, etc.) compared to Rel-16 Mode 2 RA, and thus recommends specification of the feature.*     - *The detailed observations can be found in the attachment of the LS* |

**2. Actions:**

To RAN: RAN1 respectively asks RAN to take the above conclusions into account.

**3. Dates of Next TSG-RAN WG1 Meetings:**

TSG RAN WG1 Meeting #104-bis-e 12 April – 20 April 2021 eMeeting

TSG RAN WG1 Meeting #105 -e 19 May – 27 May 2021 eMeeting