3GPP TSG-RAN WG2 #112e R2-20xxxxx

Electronic meeting, November 2nd – 13th 2020

Agenda Item: 6.4.2

Source: Ericsson

Title: Summary of [AT112-e][708][V2X] SL related RRC procedure

Document for: Discussion, Decision

# 1 Introduction

This document is to kick off the following email discussion:

* [AT112-e][708][V2X] SL related RRC procedure (Ericsson)

Discuss CRs (including need of changes) in the above list (in Recommendation2) and prepare the agreeable CR in R2-2010937 (discussion summary in R2-2010936 if needed). CR will be agreed by email. Deadline is 12:00pm 11/12/2020 (UTC).

**Deadline Phase 1:** Collect companies’ views and formulate proposals, by Friday November 6th 12:00 UTC

**Deadline Phase 2:** Further review proposals and related CRs, by Thursday November 12nd 1200 UTC

# 2 Contact Information

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| --- | --- |
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# 3 Discussion

## 3.1 SDAP entity reconfiguration

R2-2009406 Correction on SDAP related procedures and configurations in TS 38.331 Huawei, HiSilicon CR Rel-16 38.331 16.2.0 2070 - F 5G\_V2X\_NRSL-Core

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| --- | --- | --- |
| Company | Agree (Y/N)? | Comments |
| OPPO | Yes |  |
| LG | Yes |  |
| Ericsson | No | We are not sure the change is correct. The proposed change said that the SDPA entity should be *(re)configured*, but the section in which is added is that one fort he sidelink DRB *addition.*  This sounds a bit strange. If the SDAP entity already exist, shouldn’t the reconfiguration oft he SDAP entity part of the sidelink DRB modification? |

## 3.2 SL related reset operation

R2-2009713 Correction on sidelink reset configuration Ericsson CR Rel-16 38.331 16.2.0 2118 - F 5G\_V2X\_NRSL-Core

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| Company | Agree (Y/N)? | Comments |
| OPPO | See comment | Intention agreeable, suggest rewording as follows:    Since SRB of specified configuration does not need to be mentioned at all, and it is a bit contradictory to say the configuration in *RRCRecofnigurationSidelink* is included but later say DRB configuration is not included.  And we wonder what is the reason for the „*may*“ here, can it be removed? |
| LG |  | Ok with OPPO’s suggested text. |
| Ericsson | Yes with comment | We are fine with OPPO suggestion. The reason of why there is “may” here is because some radio configuration are optional and thus some of them may not be present. This is also the same formulation that we have for Uu. |

R2-2010302 Correction on trigger of SL specific MAC reset in TS 38.331 Huawei, Hisilicon CR Rel-16 38.331 16.2.0 2205 - F 5G\_V2X\_NRSL-Core

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| Company | Agree (Y/N)? | Comments |
| OPPO | Yes with comment | Intention agreeable, i.e., the processing for **connection release requested by upper layers** is missing.  On the other hand, this CR put the steps into the section of „SRB release“, which is not very decent – one alternative is similar to section 5.8.9.3 handling RLF case, to have a separate section for the parrellel case, i.e., **connection release requested by upper layers.** |
| LG | Yes |  |
| Ericsson | Yes with comment | Agree with OPPO. |

## 3.3 Operations related to SL-RSRP configuration

R2-2009520 Correction on Stored Sidelink Measurement Configuration Apple, Ericsson CR Rel-16 38.331 16.2.0 2085 - F 5G\_V2X\_NRSL-Core

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| Company | Agree (Y/N)? | Comments |
| OPPO | See comment | Change-2 is OK for us.  For change-1, although we understand the intention, yet the initiation condition for as-configuration is missing in the whole spec, not just for measurement, because we rely on the section 5.8.9.1.1 for that    There is no need to go into details, so we do not think change- 1 is needed. |
| LG | Yes |  |
| Ericsson | Yes |  |

## 3.5 SL synchronization related

R2-2008942 Discussion on synchronization procedure under in-device coexistence operation LG Electronics France discussion Rel-16 38.331 5G\_V2X\_NRSL-Core

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| Company | Agree (Y/N)? | Comments |
| OPPO | See reply to the following question |  |
| LG | Yes | We believe a clarification is needed to avoid a possible ambiguity in understanding the operations specified in 38.213 and 38.331 spec, under in-device coexistence. Otherwise, some vendors may make UE to transmit/receive subframe boundary aligned signals while others may not, which causes an inter-vendor interoperability issue for IDC operation.  Based on discussions with some companies, if most of companies have common understanding that the normative text in 38.331 does not need to be changed, we agree to add a NOTE in Section 5.8.6.2 of TS 38.331 as follows.  ***NOTE: When NR SL and LTE SL are time-division multiplexed and UE knows the frame indexes for the two SL RAT, the UE transmits and receives with subframe boundary alignment between NR/LTE SL under in-device coexistence operation, as specified in Section 16.7 of TS 38.213.*** |
| Ericsson | No | We prefer the solution in [R2-2010442](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2010442.zip) |

R2-2010442 On synchronization alignment between V2X SL and NR SL in the in-device coexistence environment Huawei, HiSilicon discussion

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| Company | Agree (Y/N)? | Comments |
| OPPO | Yes |  |
| LG | Yes | Similar to LG response to R2-2008942 above, we believe a clarification is needed to avoid a possible ambiguity in understanding the operations specified in 38.213 and 38.331 spec, under in-device coexistence. As a result, we support adding a note in TS38.331.  Regarding the NOTE that was proposed in R2-2010442, we suggest to use the same terminology as in TS38.213 as follows:  NOTE X: How the UE achieves subframe boundary alignment between V2X sidelink communication and NR sidelink communication under in-device coexistence ~~(if both are performed by the UE)~~ is as specified in TS 38.213, subcases 16.7.  We’re ok with either this NOTE or the one suggested in the response to R2-2008942 above. |
| Ericsson | Yes |  |

## 3.6 SL CG handling during the RLF case

R2-2010060 Correction on SL configured grant type 1 validity under RLF Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.2.0 2171 - F 5G\_V2X\_NRSL-Core

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| Company | Agree (Y/N)? | Comments |
| OPPO | No | The related text in 331 is to allow the usage of exceptional pool when there is no configured grant provided.  For the case when both exceptional pool and configured grant are provided during T310, the following note in MAC spec can solve the issue, i.e., relying on CG resource.  *NOTE 1: If the MAC entity is configured with Sidelink resource allocation mode 2 to transmit using a pool of resources in a carrier as indicated in TS 38.331 [5] or TS 36.331 [21], the MAC entity can create a selected sidelink grant on the pool of resources based on random selection or sensing only after releasing configured sidelink grant(s), if any.* |
| LG | Yes | The proposal text describes the RAN2 agreement even more clearly. Although the MAC specification explains that selected sidelink grant can be created after releasing configured sidelink grant, it is necessary to have more clear text in the RRC specification that the exceptional pool can be used when the T310 timer expires if the configured sidelink grant is configured. |
| Ericsson | Yes | We think the clarification makes sense and it is, indeed, needed in RRC. We support this. |

## 3.7 Correction related to SL RLF procedure

R2-2009711 Correction on setting of sl-FailureList in SidelinkUEInformation Ericsson CR Rel-16 38.331 16.2.0 2116 - F 5G\_V2X\_NRSL-Core

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| Company | Agree (Y/N)? | Comments |
| OPPO | Yes |  |
| LG | Yes |  |
| Ericsson | Yes |  |

# 4 Conclusion

According to the previous sections the following proposals are made: