**3GPP TSG-RAN WG2 Meeting #121bis-e R2-2304222**

**Online, 17th– 26th April, 2023**

Agenda item: 6.10.2

**Source: Huawei, HiSilicon**

**Title: Summary on [AT121bis-e][504][V2X/SL] R17 CP Corrections (Huawei)**

**Document for: Discussion and Decision**

# 1. Introduction

This document summarizes the offline discussion as:

* [AT121bis-e][504][V2X/SL] R17 CP Corrections (Huawei)

      **Scope:** Discuss corrections for 38.331/304, including 2683 (except change-3), 2686

      Identify CRs that can be agreed in principle with or without revision

      **Intended outcome:**

1. Discussion summary in R2-2304222.
2. For CRs can be agreed in principle after revision, Tdoc number will be allocated after conclusion from discussion.

**Deadline:** Aim at email approval before 4/25 CB session

Contact list:

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| --- | --- | --- |
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# 2. Changes in R2-2302683 (except change-3)

Changes in R2-2302683 (except change-3) comprise new changes proposed and (old) changes based on last meeting Xiaomi contribution R2-2300837.

Regarding the (old) changes based on R2-2300837 which is 7th change in R2-2302683:

**Q1: Would your company agree on the 7th change in R2-2302683? (Note: in 7th change, for FD of *sl-ResourcePoolID*, there is a redundant "sidelink" now: shall be "the sidelink configured grant type 1")?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Agree/Disagree** | **Further comments** |
| **Xiaomi** | **Agree** | **The redundant ‘sidelink’ should be removed** |
| **Nokia** | **No strong view** |  |
| **vivo** | **Agree** |  |

Other changes (1st, 2nd, 4th, 5th, 6th, 8th) in R2-2302683 are minor changes:

**Q2: Would your company agree/disagree on the 1st, 2nd, 4th, 5th, 6th, 8th changes in R2-2302683?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Agree/Disagree** | **Further comments** |
| **Xiaomi** | **Disagree with change 6** | **In 331, SL is defined in abbreviation for sidelink. However, ‘S’ is not defined in 331. Original SL-SSB is clearer.** |
| **Nokia** | **Disagree with change 6** | **Agree with Xiaomi** |
| **vivo** | **Agree with all changes** |  |

# 3. Changes in R2-2302686

Two changes proposed on TS 38.300 based on the definition of "UE out-of-coverage" and on the condition of when UE can obtain SL DRX configuration and IUC information configuration from SL-PreconfigurationNR as:



Rapporteur thinks those two changes are in line with the existing description for UE in-coverage.

**Q3: Would your company agree/disagree on the above changes in R2-2302686?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Agree/Disagree** | **Further comments** |
| **Xiaomi** | **Disagree** | **The text can be improved. UE can obtain SIB12 from SIB12 from non-PCell, e.g. inter-frequency neighbour cell. Also, the UE shall check whether there is cellular coverage on the frequency indicated by *sl-PreconfigFreqInfoList* in preconfiguration****Furthermore, current change seems only consider non-remote UE. The change may not be correct for remote UE. Because remote UE may also be OOC, but use configuration in SIB12.****Following change is suggested to consider remote UE,**For NR sidelink broadcast and groupcast, the UE may obtain SL DRX configuration from *SIB12* (for U2N remote UE and in-coverage UE, as defined in clause 8.2, in RRC\_IDLE and RRC\_INACTIVE state) or *SL-PreconfigurationNR* (for non U2N remote UE out-of-coverage, as defined in clause 8.2, on the frequency which UE is configured to perform NR sidelink communication/discovery and is not included in *sl-FreqInfoList* in SIB12 or *sl-PreconfigFreqInfoList* in preconfiguration).For inter-UE coordination (IUC) information configuration, the UE may obtain it from *SIB12* (for U2N remote UE and in-coverage UE, as defined in clause 8.2, in RRC\_IDLE and RRC\_INACTIVE state) or *SL-PreconfigurationNR* (for non U2N remote UE out-of-coverage, as defined in clause 8.2, on the frequency which UE is configured to perform NR sidelink communication and is not included in *sl-FreqInfoList* in SIB12 *sl-PreconfigFreqInfoList* in preconfiguration). |
| **Nokia** | **No strong view** |  |
| **vivo** | **Disagree with comments** | **It’s observed that in current TS 38.304 how the UE is defined as out-of-coverage on the frequency for sidelink operation (including sidelink relay operations) is captured in clause 8.2. See highlighted yellow as below.**8.2 Cell selection and reselection for SidelinkThe requirements defined in this clause for sidelink operation (including sidelink relay operations) apply for UEs in RRC\_IDLE, RRC\_INACTIVE and in RRC\_CONNECTED.If the UE detects at least one cell on the frequency which UE is configured to perform NR sidelink communication on fulfilling the S criterion in accordance with clause 8.2.1, it shall consider itself to be in-coverage for NR sidelink communication on that frequency. If the UE cannot detect any cell on that frequency meeting the S criterion, it shall consider itself to be out-of-coverage for NR sidelink communication on that frequency.**Therefore, our views to the changes in R2-2302686 are as below:**1. Ok to add the reference i.e. “as defined in clause 8.2” but prefer to remove the remaining text i.e. “on the frequency which UE is configured to perform NR sidelink communication/discovery and is not included in *sl-FreqInfoList* in SIB12 of the PCell”.
2. suggest to merge the removed text for OOC definition i.e. “on the frequency which UE is configured to perform NR sidelink communication/discovery and is not included in *sl-FreqInfoList* in SIB12 of the PCell” into the existing clause 8.2.
 |

# 4. Conclusion

**Proposal(s).**

# 5. Reference

1. R2-2302683 Miscellaneous corrections on 38.331 for SL enhancements Huawei, HiSilicon CR Rel-17 38.331 17.4.0 3960 - F NR\_SL\_enh-Core
2. R2-2302686 Corrections on TS 38.304 for SL enhancements Huawei, HiSilicon CR Rel-17 38.304 17.4.0 0329 - F NR\_SL\_enh-Core