**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:

|  |  |  |
| --- | --- | --- |
| Company | Name | e-mail |
| Huawei, HiSilicon | Tao Cai | tao.cai@huawei.com |
| Xiaomi | Xing Yang | [Yangxing1@xiaomi.com](mailto:Yangxing1@xiaomi.com) |
| Nokia | Jakob buthler | Jakob.buthler@nokia.com |
| Ericsson | Min Wang | Min.w.wang@ericsson.com |
| Apple | Zhibin Wu | [Zhibin\_wu@apple.com](mailto:Zhibin_wu@apple.com) |
| Intel | Ansab Ali | [ansab.ali@intel.com](mailto:ansab.ali@intel.com) |
| LG | Giwon Park | giwon.park@lge.com |
| CATT | Jie Shi | shijie@catt.cn |
| ZTE | Weiqiang Du | du.weiqiang2@zte.com.cn |
| Sharp | Chongming Zhang | Chongming.zhang@cn.sharp-world.com |
| Qualcomm | Qing Li | [qinli@qti.qualcomm.com](mailto:qinli@qti.qualcomm.com) |
| Lenovo | Jing HAN | hanjing8@lenovo.com |
| MediaTek | Ming-Yuan Cheng | ming-yuan.cheng@mediatek.com |

# 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** |  |
| **Ericsson** | **No strong view** | **The proposed changes are rather editorial, seem unnecessary. But, we are also fine if there is majority view.** |
| **Apple** | **NO strong view** | **Just editorial. Can be in rapp CR** |
| **Intel** | **Agree** |  |
| **LG** | **Agree** |  |
| **CATT** | **No strong view** | **Slightly agree to this change to make the description better. But, respect to majority view.** |
| **ZTE** | **No strong view** |  |
| **Sharp** | **No strong view** | **We can go with majority view.** |
| **Qualcomm** | **Prefer no change** | **It’s redundant -- not causing any misunderstanding. If we follow this reasoning then we’ll have more CRs for this kind of rewording which causes wasteful time for delegates to discuss and for product companies to update all the product specification documents.** |
| **Lenovo** | **Agree** |  |
| **MediaTek** | **Prefer no change** |  |
|  |  |  |

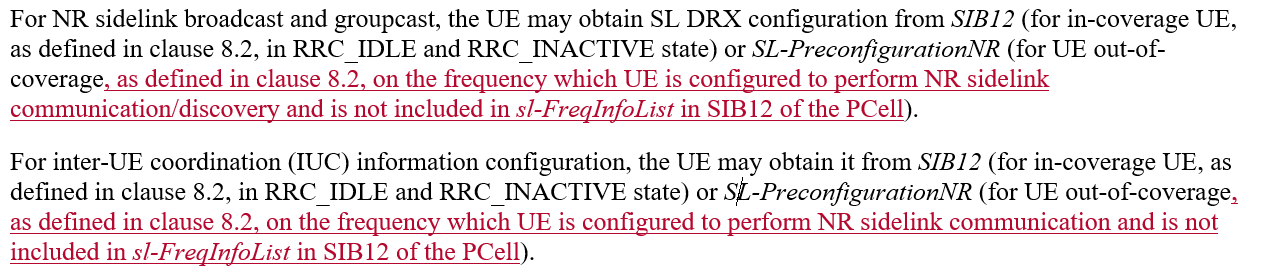
Other changes (1st, 2nd, 4th, 5th, 6th, 8th) in R2-2302683 are minor changes:

**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** |  |
| **Ericsson** | **Disagree with change 5 and 6.** | 5th change is not needed, the existing text is already clear. Since the timer is for SL reception, and of course the BWP is SL BWP. There is no confusion with the existing text.  6th change, change to S-SSB is not needed. The existing term SL-SSB is fine. |
| **Intel** | **Agree** |  |
| **LG** | **Agree with all changes** |  |
| **CATT** | **Agree** |  |
| **ZTE** | **Disagree with change 6** | Same view with xiaomi and Ericsson for change 6. SL-SSB is more appropriate for sidelink. |
| **Sharp** | **Agree** |  |
| **Qualcomm** | **Prefer no change, but follow the majority** | **Many of editorial changes not causing any misunderstanding may cause wasteful time for delegates to discuss and for product companies to update all the product specification documents.** |
| **Lenovo** | **Agree** | **For 6th change, fine to align with PHY spec** |
| **MediaTek** | **Prefer no change** |  |
|  |  |  |

# 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 Sidelink The 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. |
| **Ericsson** | **disagree** | **The changes seem unnecessary, we are also ok to follow the majority view to accept minimum change.**  **It is sufficient to just add “as defined in clause 8.2”. the rest changes are omitted.** |
| **Apple** | **Same view as Vivo** |  |
| **Intel** | **See comment** | **We share vivo’s suggestion that it is enough to just refer to the corresponding section and the additional text is not needed** |
| **LG** | **Same view as vivo** | **prefer vivo’s suggestion** |
| **CATT** | **Same view as vivo.** | **Prefer vivo’s view.** |
| **ZTE** | **Same view as vivo.** |  |
| **Sharp** | **disagree** | **We share the view with Ericsson that it is sufficient to just add “as defined in clause 8.2”. The rest changes are omitted.** |
| **Qualcomm** | **Disagree** | **Same view as Vivo** |
| **Lenovo** | **See comments** | **just add “as defined in clause 8.2” is sufficient** |
| **MediaTek** | **Disagree** |  |
|  |  |  |

# 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