**3GPP TSG-RAN WG4 Meeting #110bis R4-2405277**

**Changsha, China, April 15 – 19, 2024**

**Agenda item:** 6.20.5

**Source:** Moderator (LG Electronics)

**Title:** Topic summary for [110bis][124] NR\_SL\_enh2\_UERF\_R18

**Document for:** Information

# Introduction

*This topic summary is for Rel-18 NR Sidelink Evolution in Agenda 6.20, and 6.20.1 as follows.*

* *Topic#1: SL-U UE RF requirements maintenance*
* *Topic#2: SL CA UE RF requirements maintenance*

# Topic #1: SL-U UE RF requirements maintenance

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2405385 | OPPO | **Observation 1: The Rel-19 sidelink package has not included the NS values for SL-U as well as the MPR for intra-band contiguous CA with non-contiguous RB allocations.**  **Proposal 1: Keep the NS values for SL-U and the intra-band contiguous CA with non-contiguous RB allocation work within Rel-18 and should not influent the Rel-19 sidelink work.**  **Proposal 2: To finish the NS values defined up to Rel-17 of NR-U (NS 28,29,30 54,59) in Rel-18 maintenance timeline.** |
| R4-2405390 | OPPO | **Reserved : Big draftCR to TR 38.786 UE NR sidelink evolution** |
| R4-2405391 | OPPO | **Reserved : Big draftCR to TS38.101-1 for Sidelink enhancement** |
| R4-2404811 | LG Electronics | **Draft CR to TR38.786**  **- Add SL-U A-MPR for NS\_29, NS\_54, NS\_59, NS\_63, NS\_64, NS\_65, NS\_66, NS\_67, NS\_68 and NS\_69.** |
| R4-2404844 | LG Electronics | **Draft CR to TS38.101-1**  **- Specify NS\_28 and NS\_30 A-MPR requirements for SL-U**  **- Typo correction in Table 6.2E.3F.2-2/3** |
| R4-2404862 | LG Electronics | **Proposal 1~10: Define NS\_29/54/59/63/64/65/66/67/68/69 PSSCH/PSCCH A-MPR for SL-U UE power class 5 as shown in Table 2-3/6/9/12/15/18/21/24/27/30 respectively.**  **Proposal 11~20: Define NS\_29/54/59/63/64/65/66/67/68/69 PSFCH A-MPR for SL-U UE power class 5 as shown in Table 3-3/6/9/12/15/18/21/24/27/30 respectively.**  **Proposal 21~30: Define NS\_29/54/59/63/64/65/66/67/68/69 S-SSB A-MPR for SL-U UE power class 5 as shown in Table 4-3/6/9/12/15/18/21/24/27/30 respectively.** |
| R4-2405382 | OPPO | **Draft CR to TR38.786**  **- Add SL-U A-MPR for NS\_28** |
| R4-2405384 | OPPO | **Proposal 1: It is proposed to capture the simulation results into the TR 38.786.** |

## Open issues summary

*Before Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if applicable) based on companies’ contributions.*

### Sub-topic 1-1 : Rel-18 SL UE RF maintenance

*Sub-topic description*

*Open issues and candidate options before meeting:*

**Issue 1-1: SL UE RF maintenance work in Rel-18**

**Background:** In the WF R4-2403868 approved in RAN4#110

Issue 2-1-1: Remaining NS values for SL-U

<On-line Agreement>

* If SL is agreed as Rel-19 RAN4-led package and the remaining NS values are included, specify them in Rel-19. If not, specify them in Rel-18 maintenance.
* Proposal: Keep the NS values for SL-U and the intra-band contiguous CA with non-contiguous RB allocation work within Rel-18 and should not influent the Rel-19 sidelink work.
* Recommended WF
  + Agree this proposal

### Sub-topic 1-2 : Rel-18 SL-U UE RF maintenance

*Sub-topic description*

*Open issues and candidate options before meeting:*

**Issue 1-2: SL-U UE RF maintenance work in Rel-18**

* Proposals
  + Option 1: Finish the NS values defined up to Rel-17 of NR-U (NS 28,29,30 54,59) in Rel-18 maintenance timeline.
  + Option 2: Finish the NS values defined up to Rel-18 of NR-U in Rel-18 maintenance timeline
* Moderator view
  + Option 2 is added based on R4-2404811 for efficient discussion.
* Recommended WF
  + Agree with one option after discussion.

**Issue 1-3: A-MPR for remaining NS values**

* Proposals
  + R4-2404862(LGE)
  + Proposal 1~10: Define NS\_29/54/59/63/64/65/66/67/68/69 PSSCH/PSCCH A-MPR for SL-U UE power class 5 as shown in Table 2-3/6/9/12/15/18/21/24/27/30 respectively.
  + Proposal 11~20: Define NS\_29/54/59/63/64/65/66/67/68/69 PSFCH A-MPR for SL-U UE power class 5 as shown in Table 3-3/6/9/12/15/18/21/24/27/30 respectively.
  + Proposal 21~30: Define NS\_29/54/59/63/64/65/66/67/68/69 S-SSB A-MPR for SL-U UE power class 5 as shown in Table 4-3/6/9/12/15/18/21/24/27/30 respectively.
  + R4-2405384 (OPPO)
  + Proposal 1: It is proposed to capture the simulation results into the TR 38.786.
* Recommended WF
  + Need further discussion on Proposals in R4-2404862
  + Proposal 1 in R4-2405384 can be agreed.

**Issue 1-4: draft CR to TR38.786**

* Proposals
  + R4-2404811(LGE)
  + R4-2405382 (OPPO)
* Recommended WF
  + R4-2404811 and R4-2405382 can be endorsed.

**Issue 1-5: draft CR to TS38.101-1**

* Proposals
  + R4-2404844(LGE)
* Recommended WF
  + Check comment on-line session, then, decide endorsement/revision

# Topic #2: SL CA UE RF requirements maintenance

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2404510 | Huawei, HiSilicon | **Draft CR to TS38.101-1**  - Move the configurations and BCS for intra-band contiguous SL CA to clause 5.5. And the wording is refined  - Add ‘CA’ in the title of sub-clause 6.5E.1.1A |
| R4-2404601 | LG Electronics | **Draft CR to TS38.101-1**  - Add the total transmitted power PCMAX,PSFCH and PCMAX,S-SSB for SL CA.  - Typo : 6.3.1-1 🡪 6.2E.1.1A-1 |
| R4-2404602 | LG Electronics | **Draft CR to TS38.101-1**  - Add PSSCH/PSCCH MPR for non-contiguous RB allocation |
| R4-2405383 | OPPO | **Draft CR to TS38.101-1**  **-** The “≤” is added for table 6.2E.2.1A-2 and table 6.2E.2.1A-3.  Some editorial modification |

## Open issues summary

*Before Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if applicable) based on companies’ contributions.*

### Sub-topic 2-1 : Rel-18 SL CA UE RF maintenance

*Sub-topic description*

*Open issues and candidate options before meeting:*

**Issue 2-1: draft CRs to TS38.101-1**

* Proposals
  + R4-2404510(Huawei)
  + R4-2404601 (LGE)
  + R4-2404602(LGE)
  + R4-2405383(OPPO)
* Recommended WF
  + Check comment on-line session, then, decide endorsement/revision