**3GPP TSG-RAN WG2 Meeting #124** **R2-231**

**Chicago, USA, 13th – 17th Nov., 2023**

**Title: Email discussion on the proposed WF for MAC CR drafting**

**Source: Huawei, HiSilicon**

**Agenda item: 8.2.2**

**Document for: Discussion and Decision**

# Background

The following post meeting email discussion has been planned during RAN2#123bis:

**[Post123bis][409][POS] Rel-18 positioning MAC CRs (Huawei)**

 Scope: Review the running CRs and develop open issue lists.

 Intended outcome: Draft CRs and open issue list for next meeting

 Deadline: Medium (2 weeks)

NOTE that we have the following guidelines from the chair on the running CR email discussions

|  |
| --- |
| Guidance for all post-meeting discussions on running CRs/open issues (also applicable to AI 7.9.1):* Update the running CR with agreements from the meeting
* Rapporteur to propose resolutions for straightforward open issues which can already be included in the running CR
* Get input on stage-3 issues that require further input from companies to make a decision:
* Focus on stage-3 issues which are better handled via offline, e.g. signaling details, parameter values/ranges, NOT functionality discussion
* For these issues, the discussion rapporteur submits a report with proposals to the next meeting, and input via company Tdocs should be avoided
* Identify the remaining open issues that need to be solved for WI completion in the next meeting
* Company Tdocs for the next meeting should focus on these issues
 |

This contribution intends to propose solutions for the remaining spec issues from the rapporteur’s point of view, without functionality discussion.

In the following sections, we are going to discuss on the non-functional issues listed in the editor’s NOTE that are related to signalling, bit fields, etc. Companies are invited to comment on the proposed WF from the MAC rapporteur.

# 2 Discussions on MAC open issues for SL positioning

## 5.8 Transmission and reception without dynamic scheduling

Editor's NOTE: Whether the above formula for determining the CG occasion for CG type 1 for SL-SCH can be reused for SL-PRS

***ProposedWF*: Revisit the issue when the list of RRC configurations are fully determined**

The rapporteur would like to ask the following question

***Question: Do companies agree with the proposed way-forward for the formula determining CG occasions?***

|  |  |  |
| --- | --- | --- |
| Companies  | Yes/No | Comment |
| **ZTE** | **Yes** |  |
| **Xiaomi**  | **Yes**  |  |

5.22.1.5 Scheduling Request

Editor's NOTE: FFS SR configuration for the SL-PRS resource request MAC CE and PUCCH resource

***ProposedWF*: There can be zero or one SR configuration for SL-PRS resource request MAC CE**

***ProposedWF*: At most one PUCCH resource for SR is configured for SL-PRS resource request MAC CE.**

The rapporteur would like to ask the following question

***Question: Do companies agree with the proposed way-forward for SR configuration and PUCCH resource?***

|  |  |  |
| --- | --- | --- |
| Companies  | Yes/No | Comment |
| **ZTE** | **Yes** |  |
| **Xiaomi**  | **Yes**  |  |

#### 5.22.1.1 SL Grant reception and SCI transmission

Editor's NOTE: FFS the details of number of SL-PRS retransmissions selection based on CBR and L1 priority, including the exact RRC fields, etc

***ProposedWF*: Come back to this issue when the signaling details, i.e, the RRC configurations and L1 parameters are completed**

***Quesiton: Do companies agree with the proposed way-forward for the parameters selected during resource selection?***

|  |  |  |
| --- | --- | --- |
| Companies  | Yes/No | Comment |
| **ZTE** | **Yes** |  |
| **Xiaomi**  | **Yes** |  |

5.22.1.4.1.3 Allocation of sidelink resources

Editor’s NOTE: FFS the prioritization between PRS and data from SCCH, CSI reporting MAC CE, etc.

***ProposedWF*: SL-PRS’s priority is on the same level as data from SCCH and lower than SCI reporting MAC CE, Sidelink Inter-UE Coordination Request MAC CE and Sidelink Inter-UE Coordination Information MAC CE, Sidelink DRX Command MAC CE and data from SCCH.**

***Quesiton: Do companies agree with the proposed way-forward for the priority of SL-PRS with data from SCCH, CSI reporting MAC CE, etc?***

|  |  |  |
| --- | --- | --- |
| Companies  | Yes/No | Comment |
| **ZTE** | **No** | **should be ‘SL-PRS’s priority is on the same level as data from STCH and lower than SCI reporting MAC CE, Sidelink Inter-UE Coordination Request MAC CE and Sidelink Inter-UE Coordination Information MAC CE, Sidelink DRX Command MAC CE and data from SCCH.’** |
| **Xiaomi** | **Yes** | - data from SCCH;- Sidelink CSI Reporting MAC CE;- Sidelink Inter-UE Coordination Request MAC CE and Sidelink Inter-UE Coordination Information MAC CE;- Sidelink DRX Command MAC CE;- data from any STCH and SL-PRS |

#### 5.22.1.xx SL-PRS transmission on SL-PRS dedicated resource pool

Editor's NOTE: FFS when source ID length configured as 12bit, whether it is the MSB or LSB of the source layer-2 ID of the UE.

***ProposedWF*: The source ID in SCI for SL-PRS dedicated resource pool when configured as 12 bit is the 12 LSB of the destination ID of the peer UE.**

***Quesiton: Do companies agree with the proposed way-forward for the source ID when it is configured to be 12 bits?***

|  |  |  |
| --- | --- | --- |
| Companies  | Yes/No | Comment |
| **ZTE** | **Yes** | **In legacy procedure for SL data, LSB is used in SCI MSB is used in MAC. So this is ok** |
| **Xiaomi** | **Yes** |  |

#### 6.1.3.xx SL-PRS resource request MAC CE

Editor's NOTE: FFS LCID/eLCID is used for the MAC CE and the number of bits for destination ID and priority

***ProposedWF*: The number of bits for destination ID is 5 bits, the same as in legacy SL-BSR and the number of bits for priority is 3 bits.**

***ProposedWF*: eLCID is adopted for SL-PRS request MAC CE.**

***Question: Do companies agree with the proposed way-forward for the fields in the MAC CE?***

|  |  |  |
| --- | --- | --- |
| Companies  | Yes/No | Comment |
| **ZTE** | **Yes** |  |
| **Xiaomi** | **Yes** |  |

In addition to above, the rapporteur would like to understand whether there are other open issues by the following question:

***Question: Do companies think there are other non-functional open issues for MAC spec for SL positioning?***

|  |  |
| --- | --- |
| Companies  | Comment |
|  |  |

# 3 Discussion on MAC open issues for LPHAP

There are no non-functional open issues in LPHAP for MAC spec from the rapporteur’s point of view. The rapporteur would like to understand the following question:

***Question: Do companies think there are other non-functional open issues for MAC spec for LPHAP?***

|  |  |
| --- | --- |
| Companies  | Comment |
|  |  |

# 4 Discussion on MAC open issues for REDCAP positioning

There are no non-functional open issues in REDCAP positioning for MAC spec from the rapporteur’s point of view. The rapporteur would like to understand the following question:

***Question: Do companies think there are other non-functional open issues for MAC spec for REDCAP positioning?***

|  |  |
| --- | --- |
| Companies  | Comment |
|  |  |

# 3 Discussion on MAC open issues for CA positioning

There are no non-functional open issues in CA positioning for MAC spec from the rapporteur’s point of view. The rapporteur would like to understand the following question:

***Question: Do companies think there are other non-functional open issues for MAC spec for CA positioning?***

|  |  |
| --- | --- |
| Companies  | Comment |
|  |  |

# 3 Summary

*TBD*

***Proposal1a*:**