**3GPP TSG-RAN WG1 Meeting #114 R1-23xxxxx**

**Toulouse, France, 21-25 August, 2023**

**Agenda Item: 9.17**

**Source: Moderator (Huawei)**

**Title: Summary of email discussion [Post114-38.212-NR\_pos\_enh2-Core]**

**Document for: Discussion and Decision**

# Introduction

This document summarizes the discussions on the 38.212 draft CR on NR positioning, and aims to stabilize the 38.212 draft CR.

[Post114-38.212-NR\_pos\_enh2-Core] Email discussion on Rel-18 draft CRs by September 7 – Editors

# First round discussions

This section summarize the first round email discussions on draft CR v00. Companies are encouraged to provide the first round views by 09/05 (Tuesday), 6:00am UTC, then we can update the draft CR accordingly for the next step discussions.

|  |  |
| --- | --- |
| *Company* | *View* |
| Editor | The changes are marked with author “Yan Cheng\_post RAN1#114” on top of the version R1-2306321 endorsed in RAN1#113, which are to reflect the agreements from RAN1#114. |
| Intel | * **Comment#1**

Suggest to change the name of the field “First SL PRS indicator” to “First SL PRS resource indicator”, and “Resource ID indication” to “SL PRS resource assignment” to follow the naming for SL communication.

|  |
| --- |
| - First SL PRS indicator - bits indicating the SL PRS resource ID for the first SL PRS transmission, where the value is the total number of SL PRS resources in a dedicated resource pool for SL PRS transmission and provided by the higher layer parameter *XYZ*.- SCI format 1-B fields according to clause 8.3.1.2:- Time resource assignment- Resource ID indication |

* **Comment#2**

Suggest to remove the bit-field “Embedded SCI format payload” and associated description. A separate indication of the payload is not necessary. The payload size alignment is already captured in 214. Also, for Table 8.4.1.4-1, the last column titled “Embedded SCI format paylaod” should be removed.* **Comment #3**

Suggest to update the following as dedicated and shared resource pool is now defined in Clause 8 in 214.

|  |
| --- |
| SCI format 1-B is used for the scheduling of SL PRS for a dedicated resource pool.  |

|  |
| --- |
| SCI format 2-D is used for the decoding of PSSCH and the scheduling of SL PRS for a shared resource pool.  |

 |
| OPPO | 1． Propose to use , and this parameter should be total number of SL PRS resources in a slot.

|  |
| --- |
| - First SL PRS indicator - bits indicating the SL PRS resource ID for the first SL PRS transmission, where the value is the total number of SL PRS resources in a slot of dedicated resource pool for SL PRS transmission and provided by the higher layer parameter *XYZ*. |

|  |
| --- |
| - Resource ID indication – bits when the value of the higher layer parameter *sl-MaxNumPerReserveSL-PRS* is configured to 2; otherwise x bits when the value of the higher layer parameter *sl-MaxNumPerReserveSL-PRS* is configured to 3. The value is the total number of SL PRS resources in a slot of dedicated resource pool for SL PRS transmission and provided by the higher layer parameter *XYZ*. |

|  |
| --- |
| - SL PRS resource ID – bits, where the value is the total number of SL PRS resources in a slot of shared resource pool for SL PRS transmission and provided by the higher layer parameter *XYZ*. |

2. propose following changes to SCI 2-D.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| - Embedded SCI format payload –size of SCI 2-B. This field is set to the associated payload of the embedded SCI format indicated by the ‘Embedded SCI format’ field as defined in Table 8.4.1.4-1.Table 8.4.1.4-1: Embedded SCI format and payload

|  |  |  |
| --- | --- | --- |
| Value of the Embedded SCI format field | Embedded SCI format | Embedded SCI format payload |
| 00 | SCI format 2-A with necessary padding | Set to all fields included in SCI format 2-A  |
| 01 | SCI format 2-B | Set to all fields included in SCI format 2-B |
| 10 | Reserved | Reserved |
| 11 | Reserved | Reserved |

 |

3. is considered only in rate matching for SCI 2-D.

|  |
| --- |
| For SCI 2-D is the number of symbols for SL PRS if provided by the higher layer parameter *XYZ* , and = 0 otherwise. |

 |
| vivo | Considering the AGC structure of dedicated RP is different with shared RP, the SL PRS for dedicated RP can not be mapped to DisTxPool. So, we prefer to remove the yellow part in section 7.3.1.4.3.

|  |
| --- |
| Resource pool index – bits, where *I* is the total number of resource pools for transmission configured by the higher layer parameter *sl-TxPoolScheduling*, if configured, ~~and~~ *~~sl-DiscTxPoolScheduling~~*~~, if configured.~~ |

In addition, we prefer align the name about ”SL PRS resource ID”, ie., change “Resource ID indication” in section 7.3.1.4.3 and 8.3.1.2 to “SL PRS resource ID indication”

|  |
| --- |
| 7.3.1.4.3 SL PRS resource ID - bits indicating the SL PRS resource ID for the first SL PRS transmission, where the value is the total number of SL PRS resources in a dedicated resource pool for SL PRS transmission and provided by the higher layer parameter *XYZ*.- SCI format 1-B fields according to clause 8.3.1.2:- Time resource assignment- SL PRS Resource ID indication8.3.1.2 SCI format 1-B- SL PRS resource ID indication – bits when the value of the higher layer parameter *sl-MaxNumPerReserveSL-PRS* is configured to 2; otherwise x bits when the value of the higher layer parameter *sl-MaxNumPerReserveSL-PRS* is configured to 3. The value is the total number of SL PRS resources in a dedicated resource pool for SL PRS transmission and provided by the higher layer parameter *XYZ*. |

 |

# Second round discussions

TBD