3GPP TSG-RAN WG2 #124 R2-23xxxxx

**Chicago, USA, 13th – 17th November 2023**

Agenda Item: 7.2.1

Source: Ericsson

Title: [Post124][415][POS] Rel-18 Positioning 38.331 CR (Ericsson)

Document for: Discussion, Decision

# Introduction

This is to kick off the email discussion.

* [Post124][415][POS] Rel-18 Positioning 38.331 CR (Ericsson)

 Scope: Finalise and check the Rel-18 positioning 38.331 CR (including taking into account parameter list updates).

 Intended outcome: Agreed CR

 Deadline: Short (for RP)

# 2 Discussion

## 2.1 Sidelink

Please provide your comments on the CR for sidelink. The changes are track marked with “sidelinkPositioning”

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| Company Name | Comments |
| Sharp | * **Comment #1, on the field for configuring SL PRS resources within** ***SL-PRS-ResourcePool*:**

We suggest the following yellow highlighted changes:

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| SL-PRS-ResourcePool-r18 ::= SEQUENCE { [...] sl-PRS-ResourcesDedicatedSL-PRS-RP-r18 SEQUENCE (SIZE (1..12)) SL-PRS-ResourceDedicatedSL-PRS-RP-r18 OPTIONAL, -- Need M |

 Reason why the IE *SL-PRS-ResourceDedicatedSL-PRS-RP-r18* should correspond to one (rather than multiple) SL PRS resource: - Fields in *SL-PRS-ResourceDedicatedSL-PRS-RP-r18*: sl-PRS-ResourceID, sl-CombSize, sl-PRS-comb-offset, sl-PRS-starting-symbol, sl-NumberOfSymbols.- Each SL PRS resource is associated with a SL PRS resource ID, a comb-size, a comb-offset, a starting symbol, and a number of symbols, as can be found in the endorsed CR to TS 38.214, R1-2310764,

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| 8.2.4 SL PRS transmission procedureThe following parameters for SL PRS transmission are associated with each SL PRS resource:- [*SL PRS resource ID*] indicates an identity of a SL PRS resource. The SL PRS resource is identified by the SL PRS resource ID that is unique within a slot of a dedicated SL PRS resource pool. For a shared SL PRS resource pool, a SL PRS resource is uniquely identified by a combination of the SL PRS resource ID and a SL PRS frequency domain allocation within a slot indicated by “frequency resource assignment” field in the associated SCI.- [*SL PRS comb offset and comb size*] indicates a comb offset and a comb size of the SL PRS resource- [*Starting symbol and the number of SL PRS symbols*] indicates the starting symbol index and the number of symbols of the SL PRS resource within a slot in a dedicated SL PRS resource pool. [*number of SL PRS symbols*] indicates the number of symbols of the SL PRS resource within a slot in a shared SL PRS resource pool. |

Reason why the field “*sl-PRS-ResourcesDedicatedSL-PRS-RP-r18*” should correspond to “a sequence of” *SL-PRS-ResourceDedicatedSL-PRS-RP-r18*:- As captured in the endorsed CR to TS 38.212, R1-2310744, “*sl-PRS-ResourcesDedicatedSL-PRS-RP-r18*” is used to configure a number () of SL PRS resources in a slot of a dedicated SL PRS resource pool.

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| 8.3.1.2 SCI format 1-B[...]- Resource ID indication –bits when the value of the higher layer parameter *sl-MaxNumPerReserve-Dedicated-SL-PRS-RP*  is configured to 2; otherwise bits when the value of the higher layer parameter *sl-MaxNumPerReserve-Dedicated-SL-PRS-RP* is configured to 3. The value is the total number of SL PRS resources within a slot in a dedicated SL PRS resource pool and provided by the higher layer parameter *sl-PrsResources-Dedicated-SL-PRS-RP*. |

 Reason for 1..12:

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| RAN1#114bis AgreementThe maximum number of SL PRS resources that can be (pre)configured in a slot of a dedicated resource pool is 12. |

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# Conclusion

In the previous sections we made the following observations:

Based on the discussion in the previous sections we propose the following:

# References