**3GPP TSG-RAN WG2 Meeting #121bis-e R2-2304216**

**Online, 17th– 26th April, 2023**

Agenda item: 5.2

**Source: Huawei, HiSilicon**

**Title: Summary on [AT121bis-e][501][V2X/SL] R16 RRC corrections (Huawei)**

**Document for: Discussion and Decision**

# Introduction

This document summarizes the offline discussion [AT121bis-e][501][V2X/SL] R16 RRC corrections (Huawei) as:

* [AT121bis-e][501][V2X/SL] R16 RRC corrections (Huawei)

**Scope:** Discuss corrections for

1) sl-MaxTransPower, including 3157, 3158, 3906, 2799, 3909, 3912, 3913, and

      2) carrier frequency for SL-RSRP measurement, including 4144, 4145.

      3) measurement event triggering: 4078

      Merge corrections that can be agreed in principle.

**Intended outcome:**

1. Discussion summary in R2-2304216.
2. If needed, 38.331 CR in R2-2304217 for R16 and R2-2304218 for R17

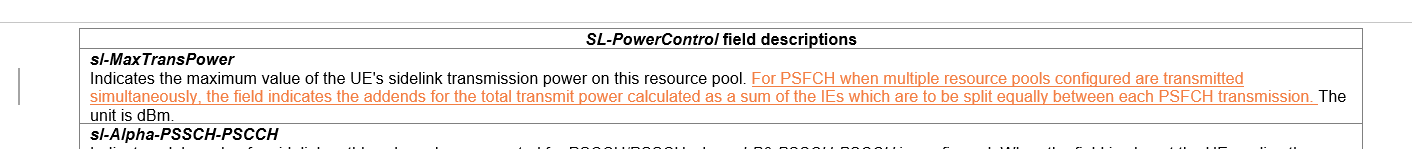
**Deadline:** Aim at email approval before at 4/25 CB session

Contact list:

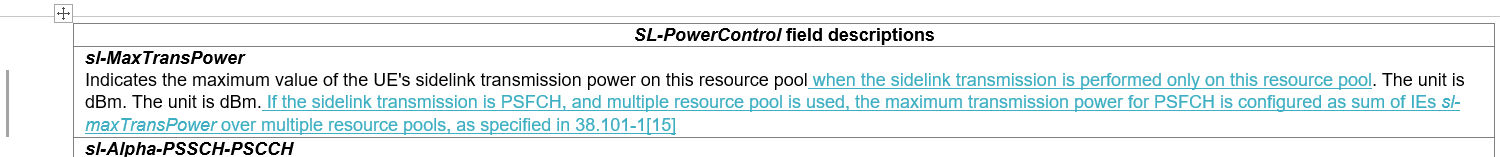
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# Change related to sl-MaxTransPower

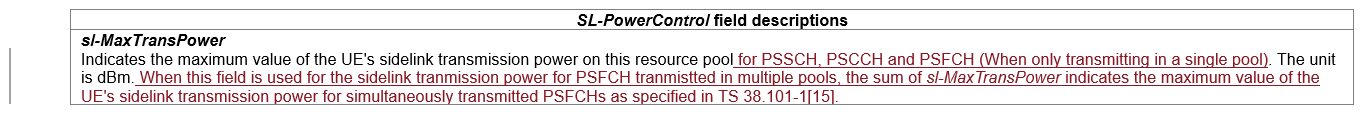
R2-2302799 proposes changes on the FD of sl-MaxTransPower according to RAN1 LS [11], as below:



R2-2303906/R2-2303909 propose similar changes related to this FD as:



Also R2-2303912/R2-2303913 propose similar changes as:



It can be discussed whether such changes are needed in Rel-16, as well as in Rel-17 (mirror changes). Also the description may be further revised if the change is needed, e.g. sum of the IEs (where "sum of the field values" can be more suitable).

**Q1: Would your company agree to change the FD of *sl-MaxTransPower* based on RAN1 LS, and, if RAN2 agrees to change this FD, which version should be used as baseline?**

**Option 1: based on R2-2302799**

**Option 2: based on R2-2303906/R2-2303909**

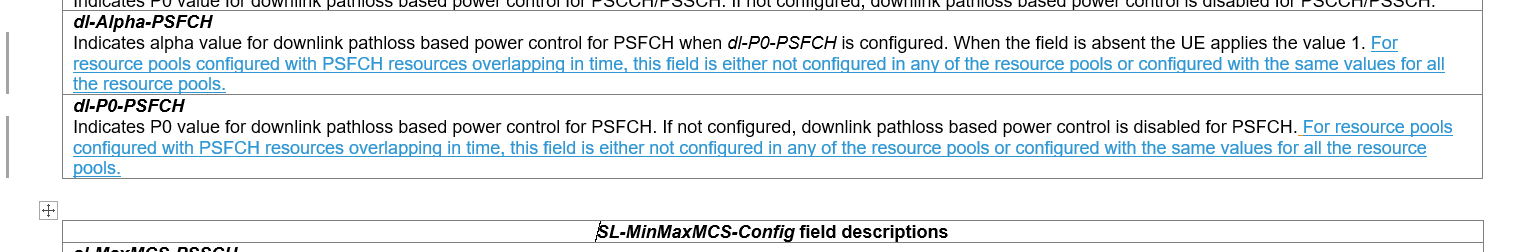
**Option 3: based on** **R2-2303912/R2-2303913**

**Option 4: Other(s), please elaborate.**

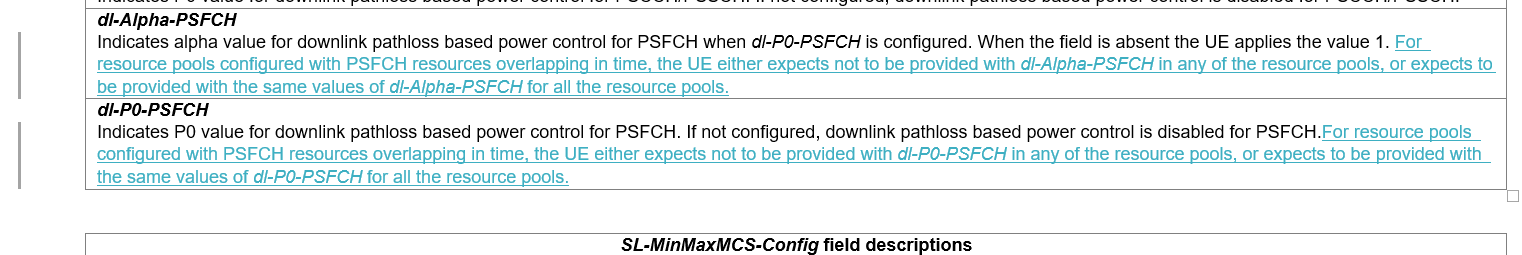
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| --- | --- | --- | --- |
| **Company** | **Agree/Disagree to change** | **Option as baseline for the change** | **Further comments** |
| **Ericsson** | **agree** | **Option 3 can be adopted as the baseline** |  |
| **Apple** | **Agree** | **Option 2** |  |
| **Samsung** | **Agree** | **Option 2** |  |
| **Nokia** | **Agree** | **Fine with eather** | **As we anyway are going for a detailed description, we would prefer to explicitly state that the power should be split evenly across all PSFCH resources, otherwise the power for each PSFCH may be assumed as what is indicated in the IE, which is not according to RAN1/RAN4 agreement.**  **As an alternative, we can be less specific, and simply just refer to TS 38.101-1 i.e. “When this field is used the transmission power of each PSFCH should be calculated as in 38.101-1” Above would also minimise maintenance, as we follow RAN1 agreements.** |
| **Xiaomi** | **Agree** | **Option 3** |  |

# Changes related to *dl-Alpha-PSFCH/ dl-P0-PSFCH*

R2-2303157/R2-2303158 propose changes related to FD of *dl-Alpha-PSFCH/ dl-P0-PSFCH* (from network perspective), according to the latest RAN1 specs as below:

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R2-2303906/3909 propose similar changes on the FD of *dl-Alpha-PSFCH/ dl-P0-PSFCH* (albeit from the UE perspective) as below:



Rapporteur thinks the proposed changes (in one form or another) are needed, as they provide further restrictions on the configuration of *dl-Alpha-PSFCH/ dl-P0-PSFCH*.

If the changes are agreed, the "Impact analysis" part might need to be added/revised accordingly to demonstrate why the changes are mandatory for Rel-16 RRC spec.

**Q2: Would your company agree to change the FD of *dl-Alpha-PSFCH/ dl-P0-PSFCH* based on RAN1 spec, and, if RAN2 agrees to change these FDs, which version should be used as baseline?**

**Option 1: based on R2-2303157/R2-2303158**

**Option 2: based on R2-2303906/3909**

**Option 3: Other(s), please elaborate.**

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| **Company** | **Agree/Disagree to change** | **Option as baseline for the change** | **Further comments** |
| **Ericsson** | **agree** | **Option 1 can be adopted as the baseline** |  |
| **Apple** | **Agree** | **Option 1** |  |
| **Samsung** | **Agree** | **Option 1** |  |
| **Nokia** | **Agree** | **Either** |  |
| **Xiaomi** | **Agree** | **Option 1** |  |

# Changes related to *Measurement Event Triggering Criteria*

R2-2304078 proposes correction for Measurement Event Triggering Criteria as:



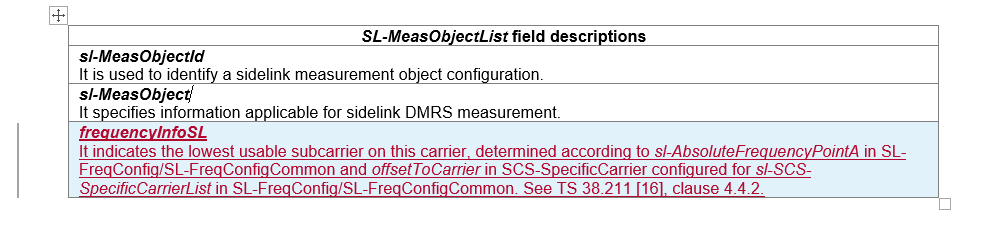
CR for the same issue for Rel-17 was approved in last meeting. Rapporteur thinks this change may be also needed for Rel-16. Though there is common understanding that we don’t usually do (standalone) editorial corrections for R16 RRC, one can say “better than absolute threshold” can be somehow misleading technically (as CBR is worse if "above").

**Q3: Would your company agree to the above change proposed on Measurement Event Triggering Criteria?**

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| --- | --- | --- |
| **Company** | **Agree/Disagree** | **Further comments** |
| **Ericsson** | **No strong view** | **We are also ok if there is majority view.** |
| **Apple** |  | **Just cosmetic changes. No strong view.** |
| **Samsung** | **Agree** |  |
| **Nokia** | **Can agree** | **Seems more in line with remaining of specification** |
| **Xiaomi** | **Agree** |  |

# Changes related to carrier frequency for SL-RSRP measurement

R2-2304144/ R2-2304145 propose below change due to one FFS issue in RAN5 spec related to carrier frequency for SL-RSRP measurement, as well as the missing FD of ***frequencyInfoSL*** :



Rapporteur recommends that companies can check with their RAN5 colleagues on this issue and can discuss the needed changes.

**Q4: Would your company agree this is an issue that shall be solved, according to the FFS Note in RAN5 spec? If RAN2 agrees this is an issue that shall be solved, would your company agree to the change on the (new) FD of field *frequencyInfoSL*?**

|  |  |  |  |
| --- | --- | --- | --- |
| **Company** | **Agree/Disagree this is an issue that shall be solved** | **Agree/Disagree to the change on the (new) FD of *frequencyInfoSL*** | **Further comments** |
| **Ericsson** | **No strong view** | **No strong view** |  |
| **Samsung** | **Agree** | **Disagree** | **It is not clear the motivation of this FD on carrier frequency. In our understanding *offsetToCarrier* for sidelink is not specified in clause 4.4.2 in TS 38.211. We wonder whether carrier frequency can be SL-AbsoluteFrequencyPointA or sl-AbsoluteFrequencySSB.** |
| **Nokia** | **Agree** | **Disagree** | **Agree with rapporteur that we can check with RAN5 colleagues first** |
| **Xiaomi** | **Not sure** |  | **The motivation is not from RAN2. RAN5 input, i.e. RAN5 LS, is needed.** |

# Conclusion

**Proposal(s)**

# Reference

1. R2-2302799 Correction to sl-MaxTransPower Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.4.0 3965 - F NR\_SL\_enh-Core
2. R2-2303157 Correction on PSFCH configured power for NR sidelink CATT CR Rel-16 38.331 16.12.0 3993 - F 5G\_V2X\_NRSL-Core
3. R2-2303158 Correction on PSFCH configured power for NR sidelink CATT CR Rel-17 38.331 17.4.0 3994 - A 5G\_V2X\_NRSL-Core
4. R2-2303906 Correction on field description for transmission power ZTE Corporation, Sanechips CR Rel-16 38.331 16.12.0 4031 - F 5G\_V2X\_NRSL-Core Late
5. R2-2303909 Correction on field description for transmission power ZTE Corporation, Sanechips CR Rel-17 38.331 17.4.0 4034 - F NR\_SL\_enh-Core
6. R2-2303912 Clarification on sl-MaxTransPower vivo CR Rel-16 38.331 16.12.0 4047 - F 5G\_V2X\_NRSL-Core
7. R2-2303913 Clarification on sl-MaxTransPower vivo CR Rel-17 38.331 17.4.0 4046 - A 5G\_V2X\_NRSL-Core
8. R2-2304078 Correction for Measurement Event Triggering Criteria Sharp CR Rel-16 38.331 16.12.0 4049 - F 5G\_V2X\_NRSL-Core
9. R2-2304144 TS 38.331 correction on carrier frequency for SL-RSRP measurement Huawei, HiSilicon CR Rel-16 38.331 16.12.0 4018 1 F 5G\_V2X\_NRSL-Core R2-2303632
10. R2-2304145 TS 38.331 correction on carrier frequency for SL-RSRP measurement Huawei, HiSilicon CR Rel-17 38.331 17.4.0 4019 1 A 5G\_V2X\_NRSL-Core R2-2303633
11. R2-2302415 Reply LS to RAN4 on PSFCH configured power with multiple resource pools (R1-2302231; contac: LGE) RAN1 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN4 Cc:RAN2