**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\_SL\_enh2-Core]**

**Document for: Discussion and Decision**

# Introduction

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

[Post114-38.212-NR\_SL\_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.

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| --- | --- |
| *Company* | *View* |
| Editor | The changes are marked with author “Yan Cheng\_post RAN1#114” on top of the version R1-2306323 endorsed in RAN1#113, which are to reflect the agreements RAN1#114. |
| LGE | There is no explicit agreement that the existing SCI format 2-A always include the COT-SI related fields. We do not have any discussion on which combinations of 2nd SCI formats will be supported in NR SL-U. To be specific, there could be separated 2nd SCI formats: one is for PSCCH/PSSCH transmission allocation only, the other is for PSCCH/PSSCH transmission allocation and COT-SI. TX UE does not always share its own channel occupancy, and then it is not necessary to use 2nd SCI format with high overhead due to COT-SI. In our understanding, it will be discussed whether the new format or which format will be used to convey COT-SI during the maintenance phase. In those points of views, all the COT-SI related field in SCI format 2-A need to be removed, or at least brackets needs to be added. [LGE2]We have another comment on 2nd SCI mapping. Following agreement also needs to be captured. **Agreement**If a resource pool includes slots with 2 candidate starting symbols for a PSCCH/PSSCH transmission, for TBS determination and 2nd SCI overhead, in TS 38.214 Clause 8.1.3.2:* *L\_ref* replaces *sl-LengthSymbols*
	+ Value range of *L\_ref* is {7, 8, 9, 10, 11, 12, 13, 14} symbols
* $N\_{symb}^{PSFCH}$ is determined in the same way as in legacy NR SL

On the section 8.4.4, - $M\_{sc}^{SCI2}(l)$ is the number of resource elements that can be used for transmission of the 2nd-stage SCI in OFDM symbol $l$, for $l=0,1,2\cdots ,N\_{symbol}^{PSSCH}-1$ and for $N\_{symbol}^{PSSCH}=N\_{symb}^{sh}-N\_{symb}^{PSFCH}$, in PSSCH transmission, where $N\_{symb}^{sh}$$N\_{symb}^{slot}$ = *sl-lengthSymbols* - 2, where *sl-lengthSymbols* is the number of sidelink symbols within the slot provided by higher layers as defined in [6, TS 38.214]. If *startingSymbolFirst* and *startingSymbolSecond* are provided for a sidelink resource pool, the number of sidelink symbols assumed in transport block size determination is determined by a reference number of symbols, *numRefSymbolLength*, provided by higher layers. If higher layer parameter *sl-PSFCH-Period* = 2 or 4, $N\_{symb}^{PSFCH}$ = 3 if "PSFCH overhead indication" field of SCI format 1-A indicates "1", and $N\_{symb}^{PSFCH}$ = 0 otherwise. If higher layer parameter *sl-PSFCH-Period* = 0, $N\_{symb}^{PSFCH}=0$. If higher layer parameter *sl-PSFCH-Period* is 1, $N\_{symb}^{PSFCH}=3$. |

# Second round discussions

TBD