**3GPP TSG-** **RAN WG1 Meeting #118 *R1-240xxxx***

**Maastricht, Netherlands, August 19 - 23, 2024**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
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|  | **38.214** | **CR** |  | **rev** |  | **Current version:** | **18.3.0** |  |
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| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network |  |

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| ***Title:***  | Correction on PSSCH transmission decoding behaviour |
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| ***Source to WG:*** | Moderator (Huawei), ZTE, Sanechips, Huawei, HiSilicon |
| ***Source to TSG:*** | R1 |
|  |  |
| ***Work item code:*** | NR\_SL\_enh2-Core |  | ***Date:*** | 2024-08-21 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | 1. UE only decode PSSCH transmission in a slot within a resource pool, not any slot.
2. if *sl-startingSymbolFirst* and *sl-startingSymbolSecond* are provided, for

SL slot without PSFCH symbols, both the first candidate starting symbol provided by *sl-startingSymbolFirst* and the second candidate starting symbol provided by *sl-startingSymbolSecond* can be used to decode PSSCH transmission, this is not captured in current spec. 1. ‘attempts to decode PSSCH’ behaviour is not aligned with legacy R16 PSSCH receiving behaviour which is ‘can decode PSSCH’.
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| ***Summary of change:*** | 1. Limit that UE would decode PSSCH transmission starting from the second candidate starting symbol in any slot without PSFCH symbols within a resource pool.
2. Capture the missing part of PSSCH decode according to the first candidate starting symbol provided by *sl-startingSymbolFirst* for SL slot without PSFCH symbols.
3. Change ‘attempts to decode’ to ‘can decode’.
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| ***Consequences if not approved:*** | 1. UE may decode PSSCH transmission in a S-SSB slot or non sidelink slot.
2. It is not clear how to determine the first candidate starting symbol for SL slot without PSFCH symbols.
3. R18 PSSCH receiving behaviour is not aligned with legacy R16 behaviour.
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| ***Clauses affected:*** | 8.3 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

<Unchanged parts are omitted>

8.3 UE procedure for receiving the physical sidelink shared channel

For sidelink resource allocation mode 1, a UE upon detection of SCI format 1-A on PSCCH can decode PSSCH according to the detected SCI formats 2-A, 2-B, 2-C and 2-D, and associated PSSCH resource configuration configured by higher layers. The UE is not required to decode more than one PSCCH at each PSCCH resource candidate.

For sidelink resource allocation mode 2, a UE upon detection of SCI format 1-A on PSCCH can decode PSSCH according to the detected SCI formats 2-A, 2-B, 2-C and 2-D, and associated PSSCH resource configuration configured by higher layers. The UE is not required to decode more than one PSCCH at each PSCCH resource candidate.

A UE is required to decode neither the corresponding SCI formats 2-A, 2-B, 2-C nor the PSSCH associated with an SCI format 1-A if the SCI format 1-A indicates an MCS table that the UE does not support.

In any slot without PSFCH symbols within a resource pool, the UE can decode PSSCH transmission starting from the first candidate starting symbol provided by *sl-startingSymbolFirst*, and can decode, subject to UE capability, PSSCH transmission starting from the second candidate starting symbol provided by *sl-startingSymbolSecond* , if *sl-startingSymbolFirst* and *sl-startingSymbolSecond* are provided.

<Unchanged parts are omitted>