**3GPP TSG RAN WG1 #109-e** **R1-22xxxxx**

**e-Meeting, May 9th – 20th, 2022**

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| *CR-Form-v12.2* | | | | | | | | |
| **DRAFT CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.213** | **CR** |  | **rev** |  | **Current version:** | **17.1.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](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:*** | Corrections on sidelink enhancements in NR | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | R1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | | 2022-05-24 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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 can be 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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | 1. For HARQ-ACK information, a priority value of a PSFCH transmission is denoted as and value range of should be from 1 to 8. For conflict information, a priority value of a PSFCH transmission is denoted as , and the range of should be from 9 to 16 because the value range of the priority value is from 1 to 8 in clause 16.2.3. 2. Clarify the values of reserved bits for SCI format 1-A in clause 16.4. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1. Clarify the value range of for priority values of PSFCH with HARQ-ACK information or with conflict information in clause 16.2.3. 2. Capture reference to TS 38.212 for values of reserved bits in SCI format 1-A in clause 16.4. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete support for sidelink enhancements in NR. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 16.2.3, 16.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS 38.212 | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\* Unchanged text is omitted \*\*\*

### 16.2.3 PSFCH

\*\*\* Unchanged text is omitted \*\*\*

- else

- the UE autonomously selects PSFCH transmissions with ascending order of corresponding priority field values as described in clause 16.2.4.2

- if , where is determined for the PSFCH transmissions according to [8-1, TS 38.101-1]

- and [dBm]

- else

- the UE autonomously selects PSFCH transmissions in ascending order of corresponding priority field values as described in clause 16.2.4.2 over the PSFCH transmissions with HARQ-ACK information, if any, and then with ascending order of priority value over the PSFCH transmissions with conflict information, if any, such that where , , is a number of PSFCHs with priority value for PSFCH with HARQ-ACK information and , , is a number of PSFCHs with priority value for PSFCH with conflict information and is defined as

- the largest value satisfying where is determined according to [8-1, TS 38.101-1] for transmission of all PSFCHs in , if any

- zero, otherwise

and

[dBm]

where is determined for the simultaneous PSFCH transmissions according to [8-1, TS 38.101-1]

- else

[dBm]

where the UE autonomously determines PSFCH transmissions with ascending order of corresponding priority field values as described in clause 16.2.4.2 over the PSFCH transmissions with HARQ-ACK information, if any, and then with ascending order of priority value over the PSFCH transmissions with conflict information, if any, such that and where is determined for the PSFCH transmissions according to [8-1, TS 38.101-1].

\*\*\* Unchanged text is omitted \*\*\*

## 16.4 UE procedure for transmitting PSCCH

\*\*\* Unchanged text is omitted \*\*\*

A UE that transmits a PSCCH with SCI format 1-A using sidelink resource allocation mode 1 [6, TS 38.214] sets

- the values of the frequency resource assignment field and the time resource assignment field for the SCI format 1-A transmitted in the -th resource for PSCCH/PSSCH transmission provided by a dynamic grant or by a SL configured grant, where and M is the total number of resources for PSCCH/PSSCH transmission provided by a dynamic grant or the number of resources for PSCCH/PSSCH transmission in a period provided by a SL configured grant type 1 or SL configured grant type 2, as follows:

- the frequency resource assignment field and time resource assignment field indicate the -th to -th resources as described in [6, TS 38.214].

For decoding of a SCI format 1-A, a UE may assume that a number of bits provided by *sl*-*NumReservedBits* can have any value as described in [4, TS 38.212].

\*\*\* Unchanged text is omitted \*\*\*