**3GPP TSG-RAN WG1 Meeting #114 R1-230XXXX**

**Toulouse, France, August 21– 25, 2023**

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| *CR-Form-v12.0* |
| **DRAFT CHANGE REQUEST** |
|  |
|  | **38.202** | **CR** | **xxx** | **rev** | **x** | **Current version:** | **17.3.0** |  |
|  |
| *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 |  | Radio Access Network |  | Core Network |  |

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|  |
| ***Title:***  | Release 18 TS38.202 Editor CR for NR sidelink evolution |
|  |  |
| ***Source to WG:*** | Qualcomm |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | NR\_SL\_enh2 |  | ***Date:*** | 2023-08-30 |
|  |  |  |  |  |
| ***Category:*** | B |  | ***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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | Introduction of specification support for NR sidelink evolution – SL Carrier Aggregation |
|  |  |
| ***Summary of change:*** | Introduce of specification support for NR sidelink evolution – SL Carrier Aggregation |
|  |  |
| ***Consequences if not approved:*** | No support of SL Carrier Aggregation |
|  |  |
| ***Clauses affected:*** | 6.3 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | 38.212, 38.213, 38.214  |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

## 6.3 Sidelink

The tables 6.3-1 and 6.3-2 describe the possible combinations of physical channels that can be sent simultaneously in the sidelink by a UE. Table 6.3-1 introduces notation for a sidelink "Transmission Type" which represents a physical channel, and any associated transport channel. Table 6.3-2 describes the combinations of these "Transmission Types" which are supported by the UE depending on capabilities [8, TS 38.306], and enumerates how many of each can be transmitted simultaneously.

Table 6.3-1: Sidelink "Transmission Types"

|  |  |  |  |
| --- | --- | --- | --- |
| "Transmission Type" | Physical Channel | AssociatedTransport Channel | Comment |
| A | PSBCH | SL-BCH |  |
| B | PSSCH | SL-SCH |  |
| C | PSCCH | SL-SCH |  |
| D | PSFCH | N/A |  |

Table 6.3-2: Sidelink "Transmission Type" combinations

|  |  |
| --- | --- |
| Supported Combinations  | Comment |
| A | Note 2 |
| B | Note 2 |
| C | Note 2 |
| $N×$ D | Note 2 |
| B+C | Note 2 |
| Note 1: Depending on the UE capability, the UE may be able to perform simultaneous Uplink and Sidelink transmissions. If the simultaneous transmission of Sidelink and Uplink is beyond the UE capability, the one not prioritized can be dropped according to [TS 38.321].Note 2: Depending on the UE capability, the UE may be able to perform simultaneous sidelink communication transmissions of the same sidelink “Transmission Type” combinations across multiple SL carriers. Note 3: Simultaneous transmissions over multiple SL carriers with one or more UL carriers is left up to UE implementation |

The tables 6.3-3 and 6.3-4 describe the possible combinations of physical channels that can be received simultaneously in the sidelink by a UE. Table 6.3-3 introduces notation for a sidelink "Reception Type" which represents a physical channel, and any associated transport channel. Table 6.3-4 describes the combinations of these "Transmission Types" which are supported by the UE depending on capabilities [8, TS 38.306], and enumerates how many of each can be received simultaneously.

Table 6.3-3: Sidelink "Reception Types"

|  |  |  |  |
| --- | --- | --- | --- |
| "Transmission Type" | Physical Channel | AssociatedTransport Channel | Comment |
| A | PSBCH | SL-BCH |  |
| B | PSSCH | SL-SCH |  |
| C | PSCCH | SL-SCH |  |
| D | PSFCH | N/A  |  |

Table 6.3-4: Sidelink "Reception Type" combinations

|  |  |
| --- | --- |
| Supported Combinations  | Comment |
| A |  |
| B | Note 1, Note 2 |
| C | Note 1, Note 2 |
| $M×$ D | Note 2 |
| B+C | Note 1, Note 2 |
| Note 1: Corresponds to simultaneous reception within one sub-channelNote 2: Depending on the UE capability, the UE may be able to perform simultaneous sidelink communication receptions of the same sidelink “Reception Type” combinations across multiple SL carriers. |