**3GPP TSG-RAN WG2 Meeting #124 R2-2313609**

**Chicago, US, Nov. 13th – 17th, 2023**

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **38.304** | **CR** | **0359** | **rev** | **1** | **Current version:** | **17.6.0** |  |
|  |
| *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)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network | **x** | Core Network |  |

|  |
| --- |
|  |
| ***Title:***  | Introduction of Release-18 SL Evolution in TS 38.304 |
|  |  |
| ***Source to WG:*** | ZTE |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_SL\_enh2-Core |  | ***Date:*** | 2023-11-23 |
|  |  |  |  |  |
| ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | This CR introduces the support of Rel18 features for sidelink. |
|  |  |
| ***Summary of change:*** | Include consideration of SL operation on shared spectrum and SL CA into section 8.1. |
|  |  |
| ***Consequences if not approved:*** | Rel18 features for sidelink are not supported. |
|  |  |
| ***Clauses affected:*** | 8.1 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 38.300 CR0728TS 38.321 CR1695TS 38.323 CR0126TS 38.331 CR4391 |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | **R2-2311943** |

START OF CHANGE

# 8 Sidelink Operation

## 8.1 NR sidelink communication, and V2X sidelink communication, and NR sidelink discovery

The UE may transmit or receive NR sidelink communication/discovery if it fulfils the condition(s) defined in TS 38.331 [3], clause 5.8.2. When UE is in-coverage for sidelink operation as defined in clause 8.2, the UE may perform NR sidelink communication/discovery according to *SIB12,* and when out-of-coverage for sidelink, the UE may perform NR sidelink communication/discovery according to *SL-PreconfigurationNR* or according to *SIB12* of the cell on the frequency which provides inter-carrier NR sidelink configuration, or according to *SIB12* received from the connected L2 U2N Relay UE as specified in TS 38.331 [3]. The UE shall not perform NR sidelink communication/discovery according to *SL-PreconfigurationNR* if the UE detects a cell providing NR sidelink configuration or inter-carrier NR sidelink configuration for the frequency UE is interested to perform NR sidelink communication/discovery on, or if the UE is a L2 U2N Remote UE and has received *SIB12* from the connected L2 U2N Relay UE.

The UE may transmit or receive V2X sidelink communication if it fulfills the condition(s) defined in TS 36.331[6], clause 5.10.1d. When UE is in-coverage for sidelink operation as defined in clause 8.2, the UE may perform V2X sidelink communication according to *SIB13/ SIB14* of the cell on an NR frequency.

The U2N Remote UE, the U2N Relay UE, or both may transmit NR sidelink relay discovery (i.e., as specified in TS 23.304 [22]) if it fulfills the condition(s) defined in TS 38.331 [3].

For NR sidelink broadcast and groupcast, the UE may obtain SL DRX configuration from *SIB12* (for in-coverage UE, as defined in clause 8.2, in RRC\_IDLE and RRC\_INACTIVE state; or for non L2 U2N Remote UE out-of-coverage, as defined in clause 8.2, on the frequency which the UE is configured to perform NR sidelink communication/discovery and which is included in *sl-FreqInfoList* in *SIB12*, or on the frequency which the UE is configured to perform NR sidelink communication and which is included in *FreqInfoListSizeExt* in *SIB12*) or *SL-PreconfigurationNR* (for non L2 U2N Remote UE out-of-coverage, as defined in clause 8.2, on the frequency which the UE is configured to perform NR sidelink communication/discovery and which is not included in *sl-FreqInfoList* in *SIB12*, or on the frequency which the UE is configured to perform NR sidelink communication and which is not included in *FreqInfoListSizeExt* in *SIB12*).

For inter-UE coordination (IUC) information configuration, the UE may obtain it from *SIB12* (for in-coverage UE, as defined in clause 8.2, in RRC\_IDLE and RRC\_INACTIVE state; or for non L2 U2N Remote UE out-of-coverage, as defined in clause 8.2, on the frequency which UE is configured to perform NR sidelink communication and which is included in *sl-FreqInfoList*/*sl-FreqInfoListSizeExt* in *SIB12*) or *SL-PreconfigurationNR* (for non L2 U2N Remote UE out-of-coverage, as defined in clause 8.2, on the frequency which UE is configured to perform NR sidelink communication and which is not included in *sl-FreqInfoList*/*sl-FreqInfoListSizeExt* in *SIB12*).

END OF CHANGE