**3GPP TSG-RAN2 Meeting # 110 electronic  *R2-20xxxxx***

**1 June - 12 June 2020**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Introduction of segementation for SIB28 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5G\_V2X\_NRSL-Core | | | | |  | ***Date:*** | | | 8 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | C |  | | | | | ***Release:*** | | |  |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The size of NR V2X configuration *SL-ConfigCommonNR* is too big to fit into a single SIB28 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1. In clause 5.2.2.36, the reception and assemble of *SL-ConfigCommonNR* segments is added 2. In clause 6.3.1, SIB28 structure is updated to support segmentation | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | NR V2X controlled by LTE via SIB28 is not feasible | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.2.2.36, 6.3.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **y** |  | Other core specifications | | | | TS38.331 ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

|  |
| --- |
| CHANGE START |

#### 5.2.2.36 Actions upon reception of *SystemInformationBlockType28*

1> if the UE has stored at least one segment of *SIB28* and the value tag of *SIB28* has changed since a previous segment was stored:

2> discard all stored segments;

1> store the segment;

1> if all segments have been received:

2> assemble *SIB12-IEs* from the received segments;

2> perform actions as specified in 5.2.2.4.x in TS 38.331 [82]

|  |
| --- |
| NEXT CHANGE |

#### – *SystemInformationBlockType28*

The IE *SystemInformationBlockType28* contains NR sidelink communication configuration.

*SystemInformationBlockType28* information element

-- ASN1START

SystemInformationBlockType28-r16 ::= SEQUENCE {

segmentNumber-r16 INTEGER (0..63),

segmentEndIndication-r16 ENUMERATED {true} OPTIONAL,

segmentContainer-r16                OCTET STRING(containing SIB12-IEs-r16) lateNonCriticalExtension OCTET STRING OPTIONAL,

...

}

-- ASN1STOP

| *SystemInformationBlockType28* field descriptions |
| --- |
| ***segmentEndIndication***  This field indicates whether the included segment is the last segment or not. |
| ***segmentNumber***  This field identifies the sequence number of a segment of *SIB12-IEs* IE as specified in TS 38.331 [82]. A segment number of zero corresponds to the first segment, A segment number of one corresponds to the second segment, and so on. |
| ***segmentContainer***  Container for the configuration for NR sidelink communication, this fieild includes a segment of *SIB12-IEs* as specified in TS 38.331 [82]. The size of the included segment in this container should be less than maximum size of a LTE SI i.e. 2216 bits. |

|  |
| --- |
| CHANGE END |