**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 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:*** | 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*

Upon receiving *SystemInformationBlockType28* message, the UE shall:

1> store the segment;

If all segments have been received, the UE shall:

1. Assemble *SL-ConfigCommonNR* as specified in TS 38.331 [82] from the received segments;
2. Perform actions as specified in 5.2.2.4.x in TS 38.331 [82]
3. discard all segments.

|  |
| --- |
| 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,

 sl-ConfigCommonNR- SegmentContainer-r16 OCTET STRING OPTIONAL, -- Need OR

 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 *SL-ConfigCommonNR* 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. |
| ***sl-ConfigCommonNR-SegmentContainer***Container for the configuration for NR sidelink communication, this fieild includes a segment of *SL-ConfigCommonNR* IE 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 message, i.e. 2216 bits. |

|  |
| --- |
| CHANGE END |