**3GPP TSG-RAN WG2 Meeting #111-eR2-2008335**

**E-Meeting, 17th - 28th Aug 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **38.331** | **CR** | **xx** | **rev** | **x** | **Current version:** | **16.1.0** |  |
|  |
| *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 | **X** | Radio Access Network | **X** | Core Network |  |

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| ***Title:***  |  Clarification on UL and SL priority thresholds |
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| ***Source to WG:*** | vivo |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | 5G\_V2X\_NRSL-Core |  | ***Date:*** | 2020-08-26 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-16 |
|  | *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)* |
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| ***Reason for change:*** | For UL/SL prioritization, RAN2#111e meeting agreed the following recommendation.* *Recommendation 2A: Agree on A3: In case the thresholds are not configured, the NR UL is always prioritized over LTE/NR SL TX.*
	+ *Agreed. There is no case where only UL threshold or SL threshold is configured.*

Based on the highlighted text, some clarification needs to be added in TS 38.331 to prevent the network from configuring only the UL threshold or SL threshold. |
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| ***Summary of change:*** | In Section 6.3.4 update the field desription of:* *sl-PrioritizationThres* by adding Conditional Presence.
* *ul-PrioritizationThres*by adding Conditional Presence.

**Impact analysis****Impacted functionality**SL/UL prioritization**Inter-operability:** If the network implements the changes but the UE does not, there is no inter-operablity issues.If the UE implements the changes but not the network does not, the UE may receive only the UL threshold or SL threshold and cannot perform corresponding UL/SL prioritization procedures.If a UE implements the changes but the other UE does not, there is no inter-operablity issues. |
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| ***Consequences if not approved:*** | NR V2X UL/SL priority thresholds configuration specification is ambiguous.  |
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| ***Clauses affected:*** | 6.3.4 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** | **y** |  |  Other core specifications  | TS/TR 38.321 CR ... |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

* *START OF CHANGE*

#### *SL-ScheduledConfig*

The IE *SL-ScheduledConfig* specifies sidelink communication configurations used for network scheduled NR sidelink communication.

*SL-ScheduledConfig* information element

-- ASN1START

-- TAG-SL-SCHEDULEDCONFIG-START

SL-ScheduledConfig-r16 ::= SEQUENCE {

 sl-RNTI-r16 RNTI-Value,

 mac-MainConfigSL-r16 MAC-MainConfigSL-r16 OPTIONAL, -- Need M

 sl-Timing-Config-r16 SL-TimingConfig-r16 OPTIONAL, -- Need M

 sl-CS-RNTI-r16 RNTI-Value OPTIONAL, -- Need M

 sl-PSFCH-ToPUCCH-r16 SEQUENCE (SIZE (1..8)) OF INTEGER (0..15) OPTIONAL, -- Need M

 sl-ConfiguredGrantConfigList-r16 SL-ConfiguredGrantConfigList-r16 OPTIONAL, -- Need M

 ...

}

MAC-MainConfigSL-r16 ::= SEQUENCE {

 sl-BSR-Config-r16 BSR-Config OPTIONAL, -- Need M

 ul-PrioritizationThres-r16 INTEGER (1..16) OPTIONAL, -- Cond SLThreshold

 sl-PrioritizationThres-r16 INTEGER (1..8) OPTIONAL, -- Cond ULThreshold

 ...

}

SL-TimingConfig-r16 ::= SEQUENCE {

 sl-DCI-ToSL-Trans-r16 ENUMERATED{ffs} OPTIONAL, -- Need M

 ...

}

SL-ConfiguredGrantConfigList-r16 ::= SEQUENCE {

 sl-ConfiguredGrantConfigToReleaseList-r16 SEQUENCE (SIZE (1..maxNrofCG-SL-r16)) OF SL-ConfigIndexCG-r16 OPTIONAL, -- Need N

 sl-ConfiguredGrantConfigToAddModList-r16 SEQUENCE (SIZE (1..maxNrofCG-SL-r16)) OF SL-ConfiguredGrantConfig-r16 OPTIONAL -- Need N

}

-- TAG-SL-SCHEDULEDCONFIG-STOP

-- ASN1STOP

| *SL-ScheduledConfig* field descriptions |
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| ***sl-CS-RNTI***Indicate the RNTI used to scramble CRC of DCI format 3\_0, see TS 38.321 [3]. |
| ***sl-MinMCS-PSSCH, sl-MaxMCS-PSSCH***Indicate the MCS range for PSSCH transmission as specified in TS 38.214 [19, and apply to a sidelink grant as specified in TS 38.321 [3]]. If both *sl-MinMCS-PSSCH* and *sl-MaxMCS-PSSCH* are configured, UE autonomously selects the MCS from the configured values; If either *sl-MinMCS-PSSCH* or *sl-MaxMCS-PSSCH* is configured, UE uses the configured MCS value for PSSCH transmission; If neither *sl-MinMCS-PSSCH* nor *sl-MaxMCS-PSSCH* is configured, the selection of MCS is up to UE implementation. |
| ***sl-PSFCH-ToPUCCH***For dynamic grant and configured grant type 2, configure the values of the PSFCH to PUCCH gap. The field PSFCH-to-HARQ\_feedback timing indicator in DCI format 3\_0 selects one of the configured values of the PSFCH to PUCCH gap. |
| ***sl-RNTI***Indicate the C-RNTI used for monitoring the network scheduling to transmit NR sidelink communication (i.e. the mode 1). |

| *MAC-MainConfigSL* field descriptions |
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| ***sl-BSR-Config***This field is to configure the sidelink buffer status report. |
| ***sl-PrioritizationThres***Indicates the SL priority threshold, which is used to determine whether SL TX is prioritized over UL TX, as specified in TS 38.321 [3]. |
| ***ul-PrioritizationThres***Indicates the UL priority threshold, which is used to determine whether SL TX is prioritized over UL TX, as specified in TS 38.321 [3]. |

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| Conditional Presence | Explanation |
| *SLThreshold* | The field is mandatory present if the field *sl- PrioritizationThres* is configured; otherwise it is absent, need M. |
| *ULThreshold* | The field is mandatory present if the field *ul- PrioritizationThres* is configured; otherwise it is absent, need M. |

| *SL-TimingConfig* field descriptions |
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| ***sl-DCI-ToSL-Trans***Indicate the time gap between DCI reception and the first sidelink transmission scheduled by the DCI. |

*END OFt CHANGE*