**3GPP TSG RAN WG1 #103-e R1-200xxxx**

**e-Meeting, October 26th – November 13th, 2020**

**Source: Moderator (Intel Corporation)**

**Title: FL summary#1 of issues for V2X Mode 2 in 7.2.4**

**Agenda item: 7.2.4**

**Document for:** **Discussion and Decision**

Introduction

This contribution provides a summary of proposed correction to Mode-2 sidelink resource allocation for NR-V2X communication, based on review of the submitted contributions [1]-[74].

Identification of email discussions

It is proposed to organize the following email discussion:

* **Thread 4: Re-evaluation procedure for periodic resource reservations**
  + **Issue M2-1: Fix undefined UE behavior for the case of re-evaluation performed during periodic reservation process**
  + **Issue M2-7: Fix the issue of unreachable pre-emption event condition due to prior exclusion of slots related to non-monitored slots in the sensing window**

There are several tdocs resolving the RAN2 LS questions from R1-2007521. It is assumed that there will be a dedicated LS AI5 thread allocated for the LS.

Issue list

Open issue list:

* Issue 1: Fix undefined UE behaviour for the case of re-evaluation performed during periodic reservation process
* Issue 2: Handle cases of infinite execution of step 1)-7) when X% could not be reached
* Issue 3: Handling of resource selection for multiple TB / MAC PDU
* Issue 4: Logical slot period calculation clarification in section 8.1.7 of 38.214
* Issue 5: Whether to apply Tproc,0 offset in step 6)-c) of 8.1.4 of 38.214 when calculating slots for exclusion. More details in R1-2008081
* Issue 6: Logical slot index vs physical slot index for slots where candidate set is determined
* Issue 7: Fix the issue of unreachable pre-emption event condition due to prior exclusion of slots related to non-monitored slots in the sensing window

There are a couple issues with respect to capturing existing RAN1 agreements:

* Capturing issue 1: According to understanding in R1-2007986, MAC still does not implement RAN1 request to provide period equal to 0 in the identified cases
* Capturing issue 2: According to understanding in R1-2008667, MAC does not implement RAN1 agreement of time instances for pre-emption and re-evaluation checking

There are several editorial issues. Those can be captured once CRs are prepared.

Analysis of Draft Corrections

|  |  |  |  |
| --- | --- | --- | --- |
| **Tdoc#** | **Issue within the tdoc** | **Issue index** | **FL comment** |
| [R1-2007612](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007612.zip)  Huawei, HiSilicon | Backward indication |  | Optimization |
|  | Clarification on exclusion during pre-emption and re-evaluation |  | Optimization |
|  | Re-evaluation with periodic reservation | 1 | Open issue |
|  | Infinite loop / Candidate set starvation due to step 5) exclusion | 2 | Issue needs checking |
|  | Handling of resource selection for multiple TB | 3 | Open issue |
|  | For pre-emption check, step 5) does not consider current period | 7 | Issue needs checking |
|  | Allow exclusion based on decoding result for unicast |  | Optimization |
|  | In 8.1.7, 38.214 clarification on logical slot period conversion | 4 | Issue needs checking |
| R1-2007774  LG Electronics | Re-selection of a dropped resource related to RAN2 LS R1-2007521, Q1. |  | Open issue  Treat as part of LS reply activity |
|  | Re-evaluation with periodic reservation | 1 | Open issue |
| R1-2007811  CATT | Re-evaluation with periodic reservation | 1 | Open issue |
|  | Additional RSRP threshold incrementation stopping condition for pre-emption |  | Optimization |
|  | Further capture maximum gap between ReTX resource to be 32 in spec |  | No need |
|  | Optimization of exclusion of slots related to non-monitored slots |  | Optimization |
|  | Backward indication |  | Optimization |
|  | Re-selection of a dropped resource related to RAN2 LS R1-2007521, Q1. |  | Open issue  Treat as part of LS reply activity |
| R1-2007923  ZTE, Sanechips | Clarification that sets r’ and r’’ may not be provided |  | Editorial |
|  | Re-evaluation with periodic reservation | 1 | Open issue |
|  | Step 5) skipping for re-evaluation / pre-emption | 7 | Issue needs checking |
|  | Correction to in 16.3, 38.213 |  | Editorial |
|  | Delete “can” for description of slots which a UE shall monitor |  | Optimization / Editorial |
|  | Handling of resource selection for multiple TB | 3 | Open issue |
| R1-2007935  Intel Corporation | Handling of resource selection for multiple TB | 3 | Open issue |
|  | Re-evaluation with periodic reservation | 1 | Open issue |
| R1-2007986  ETRI | Capture the case of setting reservation period to 0 |  | Capturing issue |
| R1-2008081  NEC | Correction to step 6) to include slots within Tproc0 | 5 | Issue needs checking |
| R1-2008096  Spreadtrum Communications | Re-evaluation with periodic reservation | 1 | Open issue |
|  | Optimization of the sensing window size |  | Optimization |
|  | Restrict S\_A by X\*Mtotal |  | Optimization |
| R1-2008131  Samsung | In 8.1.4 correct instead of | 6 | Issue needs checking |
|  | Remove step 5) |  | Optimization |
| R1-2008132  Samsung | In 8.1.7 clarify meaning of N, as an average number of SL slots | 4 | Issue needs checking |
| R1-2008236  OPPO | Infinite loop / Candidate set starvation due to step 5) exclusion | 2 | Issue needs checking |
|  | Re-evaluation with periodic reservation | 1 | Open issue |
| R1-2008389  Sharp | Clarify that hypothetical SCI in step 5) assumes N=1 num of repetitions |  | Optimization |
| R1-2008431  Apple | Re-evaluation with periodic reservation | 1 | Open issue |
|  | Define sensing window in logical slots | 6 | Issue needs checking |
| R1-2008531  NTT DOCOMO, INC. | Re-selection of a dropped resource related to RAN2 LS R1-2007521, Q1. |  | Open issue  Treat as part of LS reply activity |
|  | Re-evaluation with periodic reservation | 1 | Open issue |
| R1-2008606  Qualcomm Incorporated | Infinite loop / Candidate set starvation due to step 5) exclusion | 2 | Issue needs checking |
|  | Re-evaluation with periodic reservation | 1 | Open issue |
| R1-2008633  ASUSTeK | Optimization of exclusion of slots related to non-monitored slots |  | Optimization |
| R1-2008667  vivo | Re-evaluation with periodic reservation | 1 | Open issue |
|  | Restrict how much resources a UE can reserve in total after pre-emption with periodic reservation |  | Optimization |
|  | Capture pre-emption/re-evaluation checking instances in MAC as per agreements |  | Capturing issue |
|  | Restrict the maximum total number of reserved resources |  | Optimization |
|  | Align sidelink grant terminology with MAC |  | Editorial |
| R1-2008750, R1-2008750  Ericsson | Editorial correction for references/descriptions of SCI fields |  | Editorial |

References

**Contributions identified by FL to contain Mode-2 related issues:**

1. [R1-2007612](file:///C:\\Users\\wanshic\\OneDrive%20-%20Qualcomm\\Documents\\Standards\\3GPP%20Standards\\Meeting%20Documents\\TSGR1_103\\Docs\\R1-2007612.zip) Remaining details of sidelink resource allocation mode 2 Huawei, HiSilicon
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**Other Rel.16 NR V2X contributions**

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1. [R1-2008754](file:///C:\\Users\\wanshic\\OneDrive%20-%20Qualcomm\\Documents\\Standards\\3GPP%20Standards\\Meeting%20Documents\\TSGR1_103\\Docs\\R1-2008754.zip) Draft\_CR\_TS38.214 Ericsson