**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%3A%5CUsers%5Cwanshic%5COneDrive%20-%20Qualcomm%5CDocuments%5CStandards%5C3GPP%20Standards%5CMeeting%20Documents%5CTSGR1_103%5CDocs%5CR1-2007612.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 |
| R1-2007774LG Electronics | Re-selection of a dropped resource related to RAN2 LS R1-2007521, Q1.  |  | Open issueTreat as part of LS reply activity |
|  | Re-evaluation with periodic reservation | 1 | Open issue |
| R1-2007811CATT | 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 issueTreat as part of LS reply activity |
| R1-2007923ZTE, 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 $\{t\_{y}^{SL}\}$ 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 |
| R1-2007935Intel Corporation | Handling of resource selection for multiple TB | 3 | Open issue |
|  | Re-evaluation with periodic reservation | 1 | Open issue |
| R1-2007986ETRI | Capture the case of setting reservation period to 0 |  | Capturing issue |
| R1-2008081NEC | Correction to step 6) to include slots within Tproc0 | 5 | Issue needs checking |
| R1-2008096Spreadtrum Communications | Re-evaluation with periodic reservation | 1 | Open issue |
|  | Optimization of the sensing window size |  | Optimization |
|  | Restrict S\_A by X\*Mtotal |  | Optimization |
| R1-2008131Samsung | In 8.1.4 correct $t'\_{i}^{SL}$ instead of $t\_{i}^{SL}$ | 6 | Issue needs checking |
|  | Remove step 5) |  | Optimization |
| R1-2008132Samsung | In 8.1.7 clarify meaning of N, as an average number of SL slots | 4 | Issue needs checking |
| R1-2008236OPPO | Infinite loop / Candidate set starvation due to step 5) exclusion | 2 | Issue needs checking |
|  | Re-evaluation with periodic reservation | 1 | Open issue |
| R1-2008389Sharp | Clarify that hypothetical SCI in step 5) assumes N=1 num of repetitions |  | Optimization |
| R1-2008431Apple | Re-evaluation with periodic reservation | 1 | Open issue |
|  | Define sensing window in logical slots | 6 | Issue needs checking |
| R1-2008531NTT DOCOMO, INC. | Re-selection of a dropped resource related to RAN2 LS R1-2007521, Q1. |  | Open issueTreat as part of LS reply activity |
|  | Re-evaluation with periodic reservation | 1 | Open issue |
| R1-2008606Qualcomm Incorporated | Infinite loop / Candidate set starvation due to step 5) exclusion | 2 | Issue needs checking |
|  | Re-evaluation with periodic reservation | 1 | Open issue |
| R1-2008633ASUSTeK | 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, R1-2008750Ericsson | 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%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007612.zip) Remaining details of sidelink resource allocation mode 2 Huawei, HiSilicon
2. [R1-2007774](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007774.zip) Discussion on essential corrections in resource allocation for Mode 2 LG Electronics
3. [R1-2007811](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007811.zip) Remaining issues on Mode 2 resource allocation in NR V2X CATT
4. [R1-2007923](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007923.zip) Remaining issues in mode 2 ZTE, Sanechips
5. [R1-2007935](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007935.zip) Corrections related to Mode-2 resource allocation Intel Corporation
6. [R1-2007986](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007986.zip) Remaining issues on resource allocation mode 2 for NR V2X ETRI
7. [R1-2008081](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008081.zip) Maintenance for mode 2 resource allocation NEC
8. [R1-2008096](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008096.zip) Remaining issues in NR sidelink mode 2 resource allocation Spreadtrum Communications
9. [R1-2008131](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008131.zip) Draft CR on Mode 2 for NR Sidelink Samsung
10. [R1-2008132](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008132.zip) Draft CR on Sidelink Physical Duration to Logical Slot Conversion Samsung
11. [R1-2008236](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008236.zip) Remaining open issues and corrections for mode 2 RA OPPO
12. [R1-2008389](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008389.zip) Remaining issues on resource allocation mode 2 for NR sidelink Sharp
13. [R1-2008431](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008431.zip) Remaining Issues of Mode 2 Resource Allocation Apple
14. [R1-2008531](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008531.zip) Maintenance for resource allocation mechanism mode 2 NTT DOCOMO, INC.
15. [R1-2008606](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008606.zip) Remaining Issues in Mode 2 Resource Allocation Qualcomm Incorporated
16. [R1-2008633](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008633.zip) Remaining issues for Mode 2 resource allocation in NR V2X ASUSTeK
17. [R1-2008667](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008667.zip) Remaining issues on mode 2 resource allocation mechanism vivo
18. [R1-2008750](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008750.zip) Discussion paper on the remaining issues in Rel. 16 for NR V2X Ericsson
19. [R1-2008752](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008752.zip) Draft\_CR\_TS38.212 Ericsson

**Other Rel.16 NR V2X contributions**

1. [R1-2007610](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007610.zip) Correction on sidelink PT-RS sequence generation Huawei, HiSilicon
2. [R1-2007611](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007611.zip) Remaining details of sidelink resource allocation mode 1 Huawei, HiSilicon
3. [R1-2007613](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007613.zip) Remaining details of physical layer procedures for sidelink Huawei, HiSilicon
4. [R1-2007772](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007772.zip) Discussion on essential corrections in physical layer structure LG Electronics
5. [R1-2007773](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007773.zip) Discussion on essential corrections in resource allocation for Mode 1 LG Electronics
6. [R1-2007775](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007775.zip) Discussion on essential corrections in sidelink synchronization mechanism LG Electronics
7. [R1-2007776](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007776.zip) Discussion on essential corrections in physical layer procedure LG Electronics
8. [R1-2007779](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007779.zip) A remaining issue on UE procedures for reporting HARQ-ACK on uplink Fujitsu
9. [R1-2007780](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007780.zip) A remaining issue on simultaneous transmissions of uplink and PUSCH carrying sidelink HARQ-ACK Fujitsu
10. [R1-2007809](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007809.zip) Remaining issues on physical layer structure for NR sidelink CATT
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13. [R1-2007813](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007813.zip) Remaining issues on physical layer procedures for NR V2X CATT
14. [R1-2007921](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007921.zip) Remaining issues of NR sidelink physical layer structure ZTE, Sanechips
15. [R1-2007922](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007922.zip) Remaining issues in Mode-1 ZTE, Sanechips
16. [R1-2007924](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007924.zip) Remaining issues of synchronization ZTE, Sanechips
17. [R1-2007925](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007925.zip) Remaining issues in PHY procedures for Rel-16 sidelink ZTE, Sanechips
18. [R1-2007934](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007934.zip) Remaining opens of sidelink physical structure for NR V2X design Intel Corporation
19. [R1-2007936](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007936.zip) Corrections related to Mode-1 resource allocation Intel Corporation
20. [R1-2007987](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2007987.zip) Physical layer procedures for sidelink ETRI
21. [R1-2008095](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008095.zip) Remaining issues in NR sidelink mode 1 resource allocation Spreadtrum Communications
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25. [R1-2008133](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008133.zip) Draft CR on Physical Layer Procedures for NR Sidelink Samsung
26. [R1-2008230](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008230.zip) Draft TP on physical structure for NR sidelink OPPO
27. [R1-2008231](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008231.zip) Text proposal of mode 1 for NR sidelink OPPO
28. [R1-2008232](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008232.zip) Text proposal of physical layer procedure for NR sidelink OPPO
29. [R1-2008237](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008237.zip) Corrections for FDM-based semi-static power split for in-device coexistence OPPO
30. [R1-2008334](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008334.zip) Correction on sidelink timing definition Huawei, HiSilicon
31. [R1-2008381](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008381.zip) Remaining issue on physical layer structure and procedure for sidelink in NR V2X Panasonic Corporation
32. [R1-2008387](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008387.zip) Remaining issues on physical layer structure for NR sidelink Sharp
33. [R1-2008388](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008388.zip) Remaining issues on resource allocation mode 1 for NR sidelink Sharp
34. [R1-2008390](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008390.zip) Remaining issues on synchronization mechanism for NR sidelink Sharp
35. [R1-2008391](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008391.zip) Remaining issues on physical layer procedures for NR sidelink Sharp
36. [R1-2008428](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008428.zip) Remaining Issues of Physical Layer Procedures Apple
37. [R1-2008429](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008429.zip) Remaining Issue of Sidelink Physical Layer Structure Apple
38. [R1-2008430](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008430.zip) Remaining Issues of Mode 1 Resource Allocation Apple
39. [R1-2008496](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008496.zip) Maintenance for PSFCH and PSCCH symbol on NR sidelink ASUSTeK
40. [R1-2008497](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008497.zip) Remaining issues on sidelink power control ASUSTeK
41. [R1-2008498](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008498.zip) Miscellaneous issues of SL HARQ-ACK reporting on PUCCH ASUSTeK
42. [R1-2008529](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008529.zip) Maintenance for sidelink physical layer structure NTT DOCOMO, INC.
43. [R1-2008530](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008530.zip) Maintenance for resource allocation mechanism mode 1 NTT DOCOMO, INC.
44. [R1-2008532](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008532.zip) Maintenance for sidelink physical layer procedure NTT DOCOMO, INC.
45. [R1-2008533](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008533.zip) Maintenance for sidelink-related collision NTT DOCOMO, INC.
46. [R1-2008604](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008604.zip) Remaining Issues in Physical Layer Structure Qualcomm Incorporated
47. [R1-2008605](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008605.zip) Remaining Issues in Mode 1 Resource Allocation Qualcomm Incorporated
48. [R1-2008665](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008665.zip) Remaining issues on physical layer structure for NR sidelink vivo
49. [R1-2008666](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008666.zip) Remaining issues on mode 1 resource allocation mechanism vivo
50. [R1-2008668](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008668.zip) Remaining issues on sidelink synchronization mechanism vivo
51. [R1-2008669](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008669.zip) Remaining issues on physical layer procedure for NR sidelink vivo
52. [R1-2008721](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008721.zip) Remaining issues on physical layer procedures for sidelink KT Corp.
53. [R1-2008751](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008751.zip) Draft\_CR\_TS38.211 Ericsson
54. [R1-2008753](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008753.zip) Draft\_CR\_TS38.213 Ericsson

1. [R1-2008754](file:///C%3A%5C%5CUsers%5C%5Cwanshic%5C%5COneDrive%20-%20Qualcomm%5C%5CDocuments%5C%5CStandards%5C%5C3GPP%20Standards%5C%5CMeeting%20Documents%5C%5CTSGR1_103%5C%5CDocs%5C%5CR1-2008754.zip) Draft\_CR\_TS38.214 Ericsson