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

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

**Source: Moderator (Intel Corporation)**

**Title: Discussion on [103-e-NR-Rel-16-V2X-10]**

**Agenda item: 7.2.4**

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

Introduction

This contribution provides discussion on critical issues for the thread [103-e-NR-Rel-16-V2X-10].

[103-e-NR-Rel-16-V2X-10]: Email discussion/approval of CRs for the agreements from previous meetings (Mode 2) by 10/30 – Sergey (Intel)

Inputs on potential TPs

Please indicate which agreements are not yet captured in specification, including editorial issues. So far, the following has been identified in contributions:

**Editorial #1**: Clarification that sets r’ and r’’ may not be provided simultaneously [ZTE, R1-2007923]

**Editorial #2**: should be replaced by in 38.213 section 16.4 (TDRA/FDRA setting in SCI 1-A) [ZTE, R1-2007923]

**Editorial #3**: TP to clarify that the configured sidelink grant in 8.1.5 of 38.214 refers to a selected sidelink grant defined in 38.321 (i.e. Mode-2 UE-autonomous scheduling) [vivo, R1-2008667]

**Editorial #4**: Correction for references/descriptions of SCI fields in section 8.3.1.1, TS 38.212 [Ericsson, R1-2008750, R1-2008752]

**Q1: which of the above editorial corrections should be agreed? If agreed, are any modifications needed for the TPs provided in the referred contributions?**

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| **Source** | **Comments** |
| Qualcomm | #1 is not needed, at least r’\_0 need to be presented all the time since it will be the next resource that a transmission will happen on.  For #2, this is related to M-7 and we should wait for the conclusion of that issue. |
| ETRI | For #2, agree with Qualcomm. |
| vivo |  |

**Q2: Any other omissions/editorials?**

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| **Source** | **Comments** |
| ETRI | We have one more capturing issue regarding period equal to 0 [ETRI, [R1-2007986](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007986.zip)]. For FL, do you have a plan to deal with the issue even though it is related with MAC specification? |
| vivo | The essential agreement about re-evaluation and pre-emption have not been captured in spec. we agree on some mandatory timing for re-evaluation and pre-emption, and also the mandatory resources for re-evaluation/pre-emption check. The intention is to gurantee system performance.  Based on current 38.321 and 38.213, the trigger for re-evaluation/pre-emption is totally up to implementation, the resource set r’ and r’’ are decided by MAC via implementation as well. We suggests two alternatives to capture the agreement. First alternative is to send LS to RAN2 to trigger related spec. edition. Second alternative, we add restriction on r’ and r’’ to reflect the mandatory re-evaluation and pre-emption check. |
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Annex - TPs presented in contributions for the identified issues

Editorial #1

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| 8.1.4 UE procedure for determining the subset of resources to be reported to higher layers in PSSCH resource selection in sidelink resource allocation mode 2 **<Unchanged parts are omitted>**  - if the higher layer requests the UE to determine a subset of resources from which the higher layer will select resources for PSSCH/PSCCH transmission as part of re-evaluation or pre-emption procedure, the higher layer may provide~~s~~ a set of resources which may be subject to re-evaluation and may provide another set of resources which may be subject to pre-emption.  - it is up to UE implementation to determine the subset of resources as requested by higher layers before or after the slot - , where is the slot with the smallest slot index among and , if any provided, and is equal to , whereis defined in slots in Table 8.1.4-2 whereis the SCS configuration of the SL BWP.  **<Unchanged parts are omitted>** |

Editorial #2

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| 16.4 UE procedure for transmitting PSCCH **<Unchanged parts are omitted>**  - the values of the frequency resource assignment field and the time resource assignment field as described in [6, TS 38.214] to indicate resources from a set of resources selected by higher layers as described in [11, TS 38.321] with smallest slot indices for such that , where:  - , where is a number of resources in the set with slot indices , , such that , and is provided by *sl-MaxNumPerReserve*  - each resource, from the set of resources, corresponds to contiguous sub-channels and a slot in a set of slots , where is the number of sub-channels available for PSSCH/PSCCH transmission in a slot  - is a set of slots in a sidelink resource pool [6, TS 38.214]  - is an index of a slot where the PSCCH with SCI format 1-A is transmitted.  **<Unchanged parts are omitted>** |

Editorial #3

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| --- |
| If a set of sub-channels in slot is determined as the time and frequency resource for PSSCH transmission corresponding to the ~~configured~~ selected sidelink grant (described in [10, TS 38.321]), the same set of sub-channels in slots are also determined for PSSCH transmissions corresponding to the same sidelink grant where *j=*1, 2,*…,* , , if provided, is converted from units of *ms* to units of logical slots, resulting in according to clause 8.1.7, and is determined by Clause 8. Here, is the resource reservation interval indicated by higher layers. |

Editorial #4

**<Unchanged parts omitted>**

#### 8.3.1.1 SCI format 1-A

SCI format 1-A is used for the scheduling of PSSCH and 2nd-stage-SCI on PSSCH

The following information is transmitted by means of the SCI format 1-A:

- Priority – 3 bits as defined in clause 5.4.3.3 of [12, TS 23.287].

- Frequency resource assignment – bits when the value of the higher layer parameter *sl-MaxNumPerReserve* is configured to 2; otherwise bits when the value of the higher layer parameter *sl-MaxNumPerReserve* is configured to 3, as defined in clause 16.4 of [5, TS 38.213].

- Time resource assignment – 5 bits when the value of the higher layer parameter *sl-MaxNumPerReserve* is configured to 2; otherwise 9 bits when the value of the higher layer parameter *sl-MaxNumPerReserve* is configured to 3, as defined in clause 16.4 of [5, TS 38.213].

- Resource reservation interval – bits as defined in clause 16.4 of [5, TS 38.213], where is the number of entries in the higher layer parameter *sl-ResourceReservePeriodList*, if higher layer parameter *sl-MultiReserveResource* is configured; 0 bit otherwise.

**<Unchanged parts omitted>**

#### 8.4.1.1 SCI format 2-A

SCI format 2-A is used for the decoding of PSSCH, with HARQ operation when HARQ-ACK information includes ACK or NACK, or when there is no feedback of HARQ-ACK information.

The following information is transmitted by means of the SCI format 2-A:

- HARQ process number – bits as defined in clause 8.1 of [6, TS 38.214].

- New data indicator – 1 bit as defined in clause 8.1 of [6, TS 38.214]..

- Redundancy version – 2 bits as defined in clause 8.1 of [6, TS 38.214]..

- Source ID – 8 bits as defined in clause 8.1 of [6, TS 38.214].

- Destination ID – 16 bits as defined in clause 8.1 of [6, TS 38.214].

- HARQ feedback enabled/disabled indicator – 1 bit as defined in clause 8.1 of [6, TS 38.214]..

- Cast type indicator – 2 bits as defined in Table 8.4.1.1-1 and in clause 8.1 of [6, TS 38.214].

- CSI request – 1 bit as defined in clause 8.2.1 of [6, TS 38.214] and in clause 8.1 of [6, TS 38.214].

**<Unchanged parts omitted>**

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
2. [R1-2007774](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007774.zip) Discussion on essential corrections in resource allocation for Mode 2 LG Electronics
3. [R1-2007811](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007811.zip) Remaining issues on Mode 2 resource allocation in NR V2X CATT
4. [R1-2007923](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007923.zip) Remaining issues in mode 2 ZTE, Sanechips
5. [R1-2007935](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007935.zip) Corrections related to Mode-2 resource allocation Intel Corporation
6. [R1-2007986](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007986.zip) Remaining issues on resource allocation mode 2 for NR V2X ETRI
7. [R1-2008081](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008081.zip) Maintenance for mode 2 resource allocation NEC
8. [R1-2008096](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008096.zip) Remaining issues in NR sidelink mode 2 resource allocation Spreadtrum Communications
9. [R1-2008131](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008131.zip) Draft CR on Mode 2 for NR Sidelink Samsung
10. [R1-2008132](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008132.zip) Draft CR on Sidelink Physical Duration to Logical Slot Conversion Samsung
11. [R1-2008236](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008236.zip) Remaining open issues and corrections for mode 2 RA OPPO
12. [R1-2008389](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008389.zip) Remaining issues on resource allocation mode 2 for NR sidelink Sharp
13. [R1-2008431](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008431.zip) Remaining Issues of Mode 2 Resource Allocation Apple
14. [R1-2008531](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008531.zip) Maintenance for resource allocation mechanism mode 2 NTT DOCOMO, INC.
15. [R1-2008606](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008606.zip) Remaining Issues in Mode 2 Resource Allocation Qualcomm Incorporated
16. [R1-2008633](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008633.zip) Remaining issues for Mode 2 resource allocation in NR V2X ASUSTeK
17. [R1-2008667](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008667.zip) Remaining issues on mode 2 resource allocation mechanism vivo
18. [R1-2008750](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008750.zip) Discussion paper on the remaining issues in Rel. 16 for NR V2X Ericsson
19. [R1-2008752](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008752.zip) Draft\_CR\_TS38.212 Ericsson

**Other Rel.16 NR V2X contributions**

1. [R1-2007610](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007610.zip) Correction on sidelink PT-RS sequence generation Huawei, HiSilicon
2. [R1-2007611](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007611.zip) Remaining details of sidelink resource allocation mode 1 Huawei, HiSilicon
3. [R1-2007613](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007613.zip) Remaining details of physical layer procedures for sidelink Huawei, HiSilicon
4. [R1-2007772](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007772.zip) Discussion on essential corrections in physical layer structure LG Electronics
5. [R1-2007773](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007773.zip) Discussion on essential corrections in resource allocation for Mode 1 LG Electronics
6. [R1-2007775](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007775.zip) Discussion on essential corrections in sidelink synchronization mechanism LG Electronics
7. [R1-2007776](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007776.zip) Discussion on essential corrections in physical layer procedure LG Electronics
8. [R1-2007779](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007779.zip) A remaining issue on UE procedures for reporting HARQ-ACK on uplink Fujitsu
9. [R1-2007780](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007780.zip) A remaining issue on simultaneous transmissions of uplink and PUSCH carrying sidelink HARQ-ACK Fujitsu
10. [R1-2007809](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007809.zip) Remaining issues on physical layer structure for NR sidelink CATT
11. [R1-2007810](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007810.zip) Remaining issues on Mode 1 resource allocation in NR V2X CATT
12. [R1-2007812](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007812.zip) Remaining issues on sidelink synchronization mechanism in NR V2X CATT
13. [R1-2007813](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007813.zip) Remaining issues on physical layer procedures for NR V2X CATT
14. [R1-2007921](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007921.zip) Remaining issues of NR sidelink physical layer structure ZTE, Sanechips
15. [R1-2007922](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007922.zip) Remaining issues in Mode-1 ZTE, Sanechips
16. [R1-2007924](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007924.zip) Remaining issues of synchronization ZTE, Sanechips
17. [R1-2007925](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007925.zip) Remaining issues in PHY procedures for Rel-16 sidelink ZTE, Sanechips
18. [R1-2007934](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007934.zip) Remaining opens of sidelink physical structure for NR V2X design Intel Corporation
19. [R1-2007936](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007936.zip) Corrections related to Mode-1 resource allocation Intel Corporation
20. [R1-2007987](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2007987.zip) Physical layer procedures for sidelink ETRI
21. [R1-2008095](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008095.zip) Remaining issues in NR sidelink mode 1 resource allocation Spreadtrum Communications
22. [R1-2008097](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008097.zip) Remaining issues on sidelink physical layer procedure Spreadtrum Communications
23. [R1-2008129](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008129.zip) Text Proposals on Physical Layer Structures for NR Sidelink Samsung
24. [R1-2008130](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008130.zip) Draft CR on PUCCH Power Control for NR Sidelink Mode 1 Scheduling Samsung
25. [R1-2008133](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008133.zip) Draft CR on Physical Layer Procedures for NR Sidelink Samsung
26. [R1-2008230](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008230.zip) Draft TP on physical structure for NR sidelink OPPO
27. [R1-2008231](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008231.zip) Text proposal of mode 1 for NR sidelink OPPO
28. [R1-2008232](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008232.zip) Text proposal of physical layer procedure for NR sidelink OPPO
29. [R1-2008237](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008237.zip) Corrections for FDM-based semi-static power split for in-device coexistence OPPO
30. [R1-2008334](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008334.zip) Correction on sidelink timing definition Huawei, HiSilicon
31. [R1-2008381](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008381.zip) Remaining issue on physical layer structure and procedure for sidelink in NR V2X Panasonic Corporation
32. [R1-2008387](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008387.zip) Remaining issues on physical layer structure for NR sidelink Sharp
33. [R1-2008388](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008388.zip) Remaining issues on resource allocation mode 1 for NR sidelink Sharp
34. [R1-2008390](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008390.zip) Remaining issues on synchronization mechanism for NR sidelink Sharp
35. [R1-2008391](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008391.zip) Remaining issues on physical layer procedures for NR sidelink Sharp
36. [R1-2008428](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008428.zip) Remaining Issues of Physical Layer Procedures Apple
37. [R1-2008429](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008429.zip) Remaining Issue of Sidelink Physical Layer Structure Apple
38. [R1-2008430](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008430.zip) Remaining Issues of Mode 1 Resource Allocation Apple
39. [R1-2008496](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008496.zip) Maintenance for PSFCH and PSCCH symbol on NR sidelink ASUSTeK
40. [R1-2008497](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008497.zip) Remaining issues on sidelink power control ASUSTeK
41. [R1-2008498](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008498.zip) Miscellaneous issues of SL HARQ-ACK reporting on PUCCH ASUSTeK
42. [R1-2008529](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008529.zip) Maintenance for sidelink physical layer structure NTT DOCOMO, INC.
43. [R1-2008530](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008530.zip) Maintenance for resource allocation mechanism mode 1 NTT DOCOMO, INC.
44. [R1-2008532](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008532.zip) Maintenance for sidelink physical layer procedure NTT DOCOMO, INC.
45. [R1-2008533](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008533.zip) Maintenance for sidelink-related collision NTT DOCOMO, INC.
46. [R1-2008604](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008604.zip) Remaining Issues in Physical Layer Structure Qualcomm Incorporated
47. [R1-2008605](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008605.zip) Remaining Issues in Mode 1 Resource Allocation Qualcomm Incorporated
48. [R1-2008665](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008665.zip) Remaining issues on physical layer structure for NR sidelink vivo
49. [R1-2008666](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008666.zip) Remaining issues on mode 1 resource allocation mechanism vivo
50. [R1-2008668](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008668.zip) Remaining issues on sidelink synchronization mechanism vivo
51. [R1-2008669](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008669.zip) Remaining issues on physical layer procedure for NR sidelink vivo
52. [R1-2008721](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008721.zip) Remaining issues on physical layer procedures for sidelink KT Corp.
53. [R1-2008751](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_103\Docs\R1-2008751.zip) Draft\_CR\_TS38.211 Ericsson
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