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

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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
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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
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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
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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.
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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
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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
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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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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