**3GPP TSG-RAN WG1 Meeting #109-e R1-220xxxx**

**e-Meeting, May 9– 20, 2022**

**Agenda Item: 7.2.4**

**Source: Moderator (Huawei)**

**Title: Summary of [109-e-R16-V2X-05] Alignment CR on TS 38.214**

**Document for: Discussion and decision**

# Introduction

This contribution provides discussions related to the following email thread:

[109-e-R16-V2X-05] Alignment CR on TS 38.214 by May 11 – Mixiang (Huawei)

* Discuss [R1-2204901](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_109-e\Docs\R1-2204901.zip)

# Discussion

## Issue

R1-2204901 pointed out TS 38.214 Clause 8 uses incorrect subscript notation for determination on slots in a resource pool, where and should be replaced with . The following TP is proposed.

|  |
| --- |
| 8 Physical sidelink shared channel related procedures  A UE can be configured by higher layers with one or more sidelink resource pools. A sidelink resource pool can be for transmission of PSSCH, as described in Clause 8.1, or for reception of PSSCH, as described in Clause 8.3 and can be associated with either sidelink resource allocation mode 1 or sidelink resource allocation mode 2.  In the frequency domain, a sidelink resource pool consists of *sl-NumSubchannel* contiguous sub-channels. A sub-channel consists of *sl-SubchannelSize* contiguous PRBs, where *sl-NumSubchannel* and *sl-SubchannelSize* are higher layer parameters.  The set of slots that may belong to a sidelink resource pool is denoted by where  -  - the slot index is relative to slot#0 of the radio frame corresponding to SFN 0 of the serving cell or DFN 0,  - the set includes all the slots except the following slots,  - slots in which S-SS/PSBCH block (S-SSB) is configured,  - slots in each of which at least one of *Y-th*, *(Y+1)-th*, …, *(Y+X-1)-th* OFDM symbols are not semi-statically configured as UL as per the higher layer parameter *tdd-UL-DL-ConfigurationCommon* of the serving cell if providedor *sl-TDD-Configuration* if provided or *sl-TDD-Config* of the received PSBCH if provided, where *Y* and *X* are set by the higher layer parameters *sl-StartSymbol* and *sl-LengthSymbols*, respectively.  - The reserved slots which are determined by the following steps.  1) the remaining slots excluding slots and slots from the set of all the slots are denoted by arranged in increasing order of slot index.  2) a slot belongs to the reserved slots if , here and where denotes the length of bitmap configured by higher layers.  - The slots in the set are arranged in increasing order of slot index.  The UE determines the set of slots assigned to a sidelink resource pool as follows:  - a bitmap associated with the resource pool is used where the length of the bitmap is configured by higher layers.  - a slot belongs to the set if where .  - The slots in the set are re-indexed such that the subscripts *i* of the remaining slots are successive {0, 1, …, where is the number of the slots remaining in the set.  **<Unchanged parts omitted>** |

## Question

**Question: Do you agree with the TP in section 2.1?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Do you agree?** | **Comments** |
| Huawei, HiSilicon | Agree |  |
| ZTE,Sanechips | Agree |  |
| OPPO | Agree |  |
| vivo | Agree |  |
| Qualcomm | Agree |  |
| Samsung | Agree |  |
| NTT DOCOMO | Agree |  |
| CATT, GOHIGH | Agree |  |
| Sharp | Agree |  |
| Intel | Agree |  |
| Ericsson | Agree |  |
| Nokia, Nokia Shanghai Bell | Agree |  |
| NEC | Agree |  |
| LGE | Agree |  |

## Summary of 1st round discussion

According to the feedback in Section 2.2, it’s good to see that all companies that provided comments agree with the TP in R1-2204901 and there is no need to update the TP.

Therefore, the following proposal is given:

**Proposal: The editorial specification changes in R1-2204901 is provided to improve clarity of TS 38.214 specification.**

# Conclusions

# References

1. R1-2204901 Correction for slots determination in a resource pool Huawei, HiSilicon