3GPP TSG RAN WG1 #108-e R1-220xxxx

e-Meeting, February 21st – March 3rd, 2022

**Agenda Item: 7.1**

**Source: Moderator (Sharp)**

**Title: Summary of email discussion [108-e-NR-CRs-08]: Corrections on mapping between the Time domain resource allocation field value of the RAR UL grant and a row index of an allocated table**

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

# Introduction

This contribution provides the summary of the following email discussion in RAN1#108-e, which was triggered by the draft CR in [R1-2202184](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_108-e/Docs/R1-2202184.zip) [1] and issue 2 in [R1-2202114](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_108-e/Docs/R1-2202114.zip) [2].

[108-e-NR-CRs-08] Issue#19 Corrections on mapping between the Time domain resource allocation field value of the RAR UL grant and a row index of an allocated table by February 23 – Liqing (Sharp)

* Relevant tdocs: [R1-2202184](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_108-e/Docs/R1-2202184.zip), [R1-2202114](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_108-e/Docs/R1-2202114.zip) (focus on issue 2)

# Discussions

## Issue description

In clause 6.1.2.1 of TS38.214 as below, it is specified that the *Time domain resource assignment* field value *m* of the DCI is mapped to a row index *m* + 1to an allocated table.

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| --- |
| **TS38.214 V15.15.0**  6.1.2.1 Resource allocation in time domain  When the UE is scheduled to transmit a transport block and no CSI report, or the UE is scheduled to transmit a transport block and a CSI report(s) on PUSCH by a DCI, the *Time domain resource assignment* field value *m* of the DCI provides a row index *m* + 1to an allocated table. The determination of the used resource allocation table is defined in clause 6.1.2.1.1. The indexed row defines the slot offset *K2*, the start and length indicator *SLIV*, or directly the start symbol *S* and the allocation length *L*, and the PUSCH mapping type to be applied in the PUSCH transmission. |

However, the current specification only specifies the mapping between the TDRA field value of a DCI and a row index of an allocated TDRA table. As pointed out in [1] and issue 2 in [2], neither 38.213 nor 38.214 specifies how a TDRA field value of a RAR UL grant is mapped to a row index of an allocated TDRA table.

## First Round

**Question 1: Please provide your views on whether you see the missing case in the current spec description, i.e. the current spec description does not specify how a TDRA field value of a RAR UL grant is mapped to a row index of an allocated TDRA table.**

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| --- | --- | --- |
| **Company** | **Agree or not** | **Comments** |
| Ericsson | Yes |  |
| vivo | Yes |  |
| Samsung | Yes |  |
| LG | Yes |  |
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**Question 2: Please provide your views on whether specification change is needed to solve the issue.**

* **If yes, whether the proposed change in** [**R1-2202184**](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_108-e/Docs/R1-2202184.zip) **[1] can be supported. Or any other suggested change?**
* **If no, please explain why.**

|  |  |  |
| --- | --- | --- |
| **Company** | **Spec change is needed or not** | **Comments** |
| Ericsson | Yes |  |
| vivo | Yes |  |
| Samsung | Yes | We have minor comment. Since RAR UL grant will not have CSI report, the correct change might be: 6.1.2.1 Resource allocation in time domain When the UE is scheduled to transmit a transport block and no CSI report by a DCI or a RAR UL grant, or the UE is scheduled to transmit a transport block and a CSI report(s) on PUSCH by a DCI |
| LG | Yes |  |
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## Second Round

TBD

# Conclusion

TBD.

# References

1. [R1-2202184](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_108-e/Docs/R1-2202184.zip) “Corrections on mapping between the *Time domain resource allocation* field value of the RAR UL grant and a row index of an allocated table”, RAN1#108e, Sharp.
2. [R1-2202114](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_108-e/Docs/R1-2202114.zip) “Correction on time-domain resource allocation for Msg.3 PUSCH scheduled by RAR UL grant”, RAN1#108e, Qualcomm Incorporated.