**3GPP TSG RAN WG1 #119 R1-240xxxx**

**Orlando, US, November 18th – 22nd, 2024**

**Source: Moderator (CATT)**

**Title:** **Summary on SRS antenna switching on 8Tx**

**Agenda Item:** **8.1**

**Document for:** **Decision**

# Introduction

In RAN1#119, the following draft CR is submitted on revising the RRC parameter on SRS for DL CSI acquisition in 38.214 [1]:

R1-2409921 Correction on SRS for DL CSI acquisition in 38.214 CATT

This moderator summary aims at collecting the comments from companies regarding the issue in the above contribution.

# Discussion

In 38.331/306, *srs-AntennaSwitching8T8R* is used to indicate whether a UE supports SRS 8T8R and degrade schemes of 8T8R for antenna switching. In *srs-AntennaSwitching8T8R, antennaSwitch8T8R* with two candidate values {*noTdm, tdmAndNoTdm*} is used to indicate which type(s) of SRS resource does UE support for SRS 8T8R for antenna switching. However, there is a misalignment between 38.331/38.306 and 38.214 on the parameters. In this case, a drafted CR is provided in [1] to update the parameters’ names for indicating whether the UE supports SRS 8T8R antenna switching to align with their names in the latest version of 38.331/38.306 as follows:

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| 6.2.1.2 UE sounding procedure for DL CSI acquisition When the UE is configured with the higher layer parameter *usage* in *SRS-ResourceSet* set as 'antennaSwitching', the UE may be configured with only one of the following configurations depending on the indicated UE capability *supportedSRS-TxPortSwitch* ('t1r2' for 1T2R, 't1r1-t1r2' for 1T=1R/1T2R, 't2r4' for 2T4R, 't1r4' for 1T4R, 't1r1-t1r2-t1r4' for 1T=1R/1T2R/1T4R, 't1r4-t2r4' for 1T4R/2T4R, 't1r1-t1r2-t2r2-t2r4' for 1T=1R/1T2R/2T=2R/2T4R, 't1r1-t1r2-t2r2-t1r4-t2r4' for 1T=1R/1T2R/2T=2R/1T4R/2T4R, 't1r1' for 1T=1R, 't2r2' for 2T=2R, 't1r1-t2r2' for 1T=1R/2T=2R, 't4r4' for 4T=4R, or 't1r1-t2r2-t4r4' for 1T=1R/2T=2R/4T=4R) or the UE may be configured with only one of the following configurations depending on the indicated UE capability *supportedSRS-TxPortSwitchBeyond4Rx* ('t1r1' for 1T=1R, 't2r2' for 2T=2R, 't1r2' for 1T2R, 't4r4' for 4T=4R, 't2r4' for 2T4R, 't1r4' for 1T4R, 't2r6' for 2T6R, 't1r6' for 1T6R, 't4r8' for 4T8R, 't2r8' for 2T8R, 't1r8' for 1T8R) or the UE may be configured with the following configurations depending on the indicated UE capability *srs-AntennaSwitching8T8R* ('t1r1' for 1T=1R, 't2r2' for 2T=2R, 't1r2' for 1T2R, 't4r4' for 4T=4R, 't2r4' for 2T4R, 't1r4' for 1T4R, 't2r6' for 2T6R, 't1r6' for 1T6R, 't4r8' for 4T8R, 't2r8' for 2T8R, 't1r8' for 1T8R, ‘*noTdm*’ or ‘*tdmAndNoTdm*’ for 8T8R):  <Unrelated parts are omitted> |

Without the update as above, parameters names for 8T8R antenna switching will be misaligned between 38.331/38.306 and 38.214.

In this case, one question is raised as follows:

## Q1: Do you agree that the issue raised in the contribution is valid? If yes, do you agree with the draft CR?

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| **Company** | **Agree or Not Agree** | **Comments** |
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# Proposal for online discussion

TBD.

# Reference

1. R1-2409921 Correction on SRS for DL CSI acquisition in 38.214 CATT