**3GPP TSG-RAN4 Meeting #112 R4-2414269**

**Maastricht, Netherlands, 19th – 23rd August, 2024**

**Source:** China Telecom

**Title:** WF on downlink interruption for UL Tx switching

**Agenda item:** 7.1

**Document for:** Approval

# Background

This WF captures the agreements for the criteria for analyzing DL interruption applicability for TX switching among 3 or 4 bands, and give the definition format for indicating no DL interruption requirement in the spec.

# Wayforward

**Issue 2-1-1: Applicability criteria**

**Agreement: Considering the following criterias when deciding to mandate no DL interruption applicability for TX switching among 3 or 4 bands**

* Frequency separation between the DL band and the bands involved in the Tx switching for FDD+TDD band combinations and the corresponding higher order combinations
* Whether the same UL-DL duplex mode is used for TDD+TDD band combinations and the corresponding higher order combinations
  + *Whether simultaneous RX/TX is mandated between the DL band(s) and the UL band(s)*
* Whether same antenna group is used for band combinations and the corresponding higher order combinations
* Number of TX chains to be switched

**Issue 2-2-1: Definition format for indicating no DL interruption requirement**

**Wayforward: Considering the following format as starting point for indicating no DL interruption requirement for TX switching among 3 or 4 bands**

|  |  |  |
| --- | --- | --- |
| NR CA Band | NR Band  (Table 5.2-1) | DL interruption allowed  (Note 4) |
| CA\_n1-n3-n783 | n1, n3, n78 | No for CA\_n1-n78, CA\_n3-n78 |
| CA\_n3-n5-n78 | n3, n5, n78 | No for CA\_n3-n78, CA\_n5-n78 |
| CA\_n1-n3-n5-n78 | n1, n3, n5, n78 | No for CA\_n1-n78, CA\_n3-n78, CA\_n5-n78 |