

**3GPP TSG RAN#98-e**

Online, December 12<sup>th</sup>-16<sup>th</sup>, 2022

**RP-223243**

Agenda Item 9.2.10

# On 4Rx to 2Rx relaxation for NR devices

MediaTek Inc.

# Background and Discussion

- A proposal was made in [1] to allow XR devices to be exempt from the mandated requirement for 4Rx ports for bands n7, n38, n41, n77, n78, and n79
- We acknowledge the demand for a new UE type and support adding such an objective to the XR WI
- However, it is also important for the success of 3GPP ecosystem that a new 3GPP UE type would be clearly distinguished from existing 3GPP UE types (especially RedCap), in terms of:
  - Technical capability
  - 3GPP naming
  - Identifying itself to networks

# Proposal

Add the following as a new objective to the XR WID:

- *“[RAN4, RAN2] Specify mechanism to support new device type (not "RedCap UE", not "Vehicular UE", not R15/general UE capability) that:*
  - *is only mandated to support 2Rx antenna ports in the NR bands in which 4Rx antenna ports is mandated in legacy UE, and*
  - *mandated to support [100MHz BW] (>>20MHz); and*
  - *optionally supports CA*

*Corresponding new capability indications shall be defined.”*

# References

- [1] RP-222483, Views on Rel-18 XR, *Apple Inc., Samsung*