**3GPP TSG-RAN WG4 Meeting #110-Bis R4-XXXXX**

Changsha, China, 15 – 20 April 2024

**Title: LS on UE Capability for Asymmetric BW for less than 5 MHz**

**Response to:**

**Release: R18**

**Work Item: NR\_FR1\_lessthan\_5MHz\_BW**

**Source: Rakuten Mobile (RAN4)**

**To: RAN2 & RAN1**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments: CR on 3Mhz Uplink with 5Mhz Downlink BCS for n28 [R4-XXX]**

# 1 Overall description

In response to the new operational scenario introduced and endorsed through CR R4-2405066 (to be replaced with latest number), RAN4 has defined an Asymmetric Bandwidth Combination Set for NR band n28 featuring a 3 MHz uplink and a 5 MHz downlink. Currently, UE capability in TS 38.306 for 3 MHz do not distinguish between uplink and downlink bandwidths, which leads to potential issues in scenarios where UEs support asymmetric bandwidth combination sets including 3 MHz channel bandwidth either in uplink or potentially in future also downlink. Currently, there is no request and therefore no urgent need in RAN4 for asymmetric bandwidth combination set including 3 MHz in the downlink.

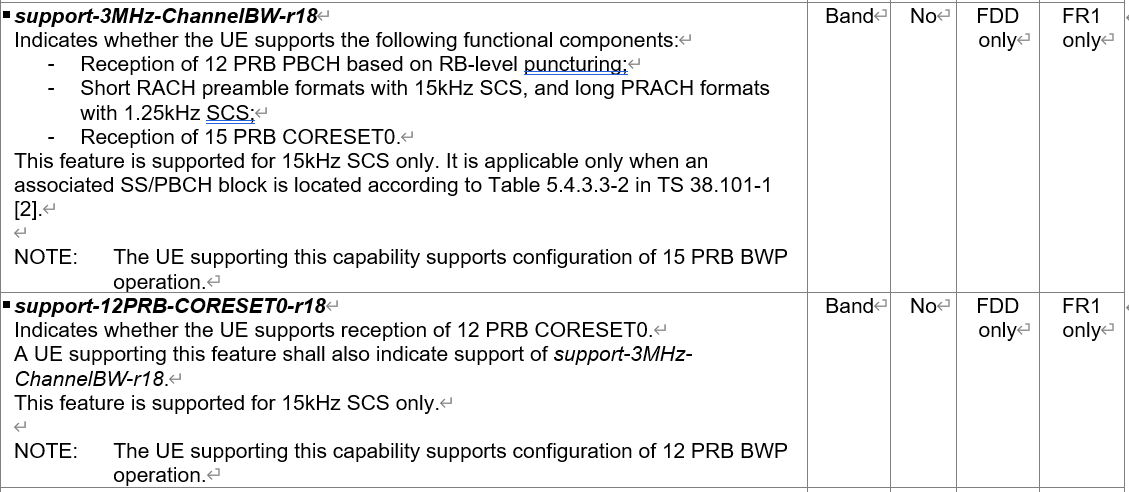


Figure 1 – TS 38.306 Support of 3 MHz Capability

# 2 Actions

**To WG RAN 2 and RAN 1**

**ACTION:** RAN4 respectfully requests RAN2 and RAN1 to examine the necessary modifications and define UE capabilities for optional support ofasymmetric bandwidths with

* 3 MHz in uplink (and 5 MHz or larger CBW in downlink)
* and potentially also for 3 MHz in downlink (and 5 MHz or larger CBW in uplink) with lower priority and no urgency.

# 3 Dates of next TSG RAN WG4 meetings

RAN4#111 May 20 – 24, 2024 Fukuoka City, Fukuoka, JP