**3GPP TSG RAN WG2#129bis R2-250XXXX**

**Wuhan, China, 7th - 11th April 2025**

**Title: Reply LS on Signalling for 7 MHz Channel Bandwidth**

**Response to: R4-2503017 LS on Signalling for 7 MHz Channel Bandwidth**

**Release: Rel-19**

**Work Item: NR\_FR1\_7MHz\_BW-Core**

**Source: RAN2**

**To: RAN4**

**Cc: RAN3**

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Attachments:

**1. Overall Description:**

RAN2 discussed the contents of LS R4-2503017, before RAN2 can proceed we seek further clarification on the signalling requirements for 7Mhz as the minimum or maximum channel bandwidth.

RAN4 LS states “RAN4 understands that maximum and minimum channel bandwidths can be reported for band combinations. For band combinations that include a band or bands that support 7 MHz, we think it is important to note that 7 MHz is unlikely to be the minimum or maximum channel bandwidth that a UE supports for a band in a given band combination. We think it would be fine to add support for 7 MHz as a possible maximum or minimum supported bandwidth in a release later than Rel-15, as 35 and 45 MHz were added in SupportedBandwidth-v1700, while the bandwidths themselves are release independent from Rel-15.”

RAN2 hasn’t determined which release 7 MHz channel bandwidth will be introduced, however there was discussion on extending previous signalling methods by adding 7 MHz to the following capability fields:

In BandNR parameters:

- channelBWs-DL/UL bit value for 7MHz

In FeatureSetDownlinkPerCC:

- extensions for 7 MHz added for supportedBandwidthDL

In FeatureSetUplinklinkPerCC:

- extensions for 7 MHz added for supportedBandwidthUL

**2. Actions:**

**To RAN4**

**ACTION:** RAN2 respectfully requests that RAN4 clarify whether UE capability band combination signalling needs to support 7 MHz as a minimum channel bandwidth and/or UE capability band combination signalling needs to support 7 MHz as a maximum channel bandwidth. And if there are requirements for earliest release that Minimum and/or Maximum channel bandwidth needs to be supported in signalling.

**3. Date of Next TSG-RAN2 Meetings:**

3GPP TSG RAN WG2#130 19 - 23 May 2025 St. Julian’s, Malta

3GPP TSG RAN WG2#130bis 25-29 August 2025 Bengaluru, India