**3GPP TSG-RAN WG4 Meeting # 102-e R4-2206447**

**Electronic Meeting, February 21 – March 3, 2022**

**Agenda item:** 9.26.2.2

**Source:** Qualcomm

**Title:** WF on adding 100 MHz channel BW in NR-U bands n46 and n96

**Document for:** Approval

# Topic #2: NR-U bands n46 and n96 – 100 MHz channel BW

### Sub-topic 2-1: Band 46

**Issue 2-1-1: 100MHz channel BW for band n46 with presence of other technology, e.g. WiFi**

Agreement

* RAN4 should consider 100 MHz channel bandwidth configuration in NR-U will not overlap two 80 MHz Wi-Fi channel bonding, only four 100 MHz channel raster (5200, 5300, 5520 and 5865 MHz) for NR-U in 5 GHz (n46)

**Issue 2-1-2: 100MHz channel BW for band n46 where the absence of other technologies is guaranteed**

* Proposals: Following alternatives have been proposed, please indicate your view:
  + Option1: For environments “where the absence of other technologies is guaranteed” use a flexible channel raster {5200, 5220, 5240, 5260, 5280, 5300, 5520, 5540, 5560, 5580, 5600, 5620, 5640, 5660, 5680, 5785, 5805, 5825, 5845, 5865} (Intel, Qualcomm)

Add specification text that would state that certain raster locations are only for use in environments where the absence of other technologies is guaranteed (e.g., by level of regulations, private premises policies). It would be the responsibility of the (public or non-public) network owner to ensure that this requirement is respected

* + Option2: RAN4 should consider 100 MHz channel bandwidth configuration in NR-U will not overlap two 80 MHz Wi-Fi channel bonding, only four 100 MHz channel raster (5200, 5300, 5520 and 5865 MHz) for NR-U in 5 GHz (n46). (Charter)
  + Option3: RAN4 should not consider implementing NR-U 100 MHz channel bandwidth configurations in n46 (5 GHz) band. (Charter)
  + Option4: The channel raster includes the following channels: 5200, 5300, 5520 and 5865 MHz. For future releases of the specification, new channels rasters may be considered provided that coexistence issues with other technologies (e.g. Wifi) can be avoided and/or the absence of other technologies can be guaranteed. (Qualcomm, Charter?, CableLabs?)

### Sub-topic 2-2: Band 96

**Issue 2-2-1: Intra-carrier guard band**

Agreement

The intra-carrier guard band pattern should be:

|  |  |
| --- | --- |
| **SCS** | **Pattern** |
| 30 kHz | 50-6-50-6-49-6-50-6-50 |
| 60 kHz | 23-5-23-5-23-5-23-5-23 |

**Issue 3-2-1: SEM for triple puncture**

* Proposals: For triple punctured SEM, consider
  + Option1: Floor at -25dBc to align with EN 301 893 (Huawei, Skyworks, Intel, Nokia)
  + Option2: -28dBr at 10MHz from the edges (CableLabs, Charter)