

# **MediaTek Views on RAN4 Rel-19: Cross session**

## **(NTN aspects)**

# RAN4 Rel-19: NTN views

## UE RF: High power UE (HPUE) for NTN

References: [RP-233918](#)

Potential objectives:

- Important to ensure reasonable load
- Introduce PC2 for NR/IoT NTN UE in NTN FR1 bands for both handheld and non-handheld (need confirmation on the co-existence)
- Introduce PC1 for NR NTN UE in NTN FR1 bands for non-handheld (the study on co-existence is needed)
- Introduce PC1.5 for NR NTN UE in NTN FR1 bands (the study on co-existence is needed)
- Need further discussion on whether the PC1.5 and PC1 are supported for non-handheld UE only or both handheld UE and non-handheld UE.
- Need further discussion on whether IoT NTN UE can support PC1 and PC1.5.
- Need further discussion on the prioritization of NTN work in terms of co-existence study.
- Need further discussion on high power UE in NTN FR2 bands for non-handheld UE

## NTN testing for NGSO

References: [RP-233920](#)

Potential objectives:

- NTN performance requirements/testing for NGSO for UEs
- FFS: whether the new core requirement is needed for NGSO

## NR Channel BW less than 5 MHz (NTN)

References: [RP-233920](#)

Potential objectives:

- Aim for minimal spec impact
- NR Channel BW less than 5 MHz (focusing on 3MHz) (study phase is needed)
  - No RAN1 impact is expected

### MediaTek views

1. Power Class: Coexistence studies will be needed for any higher Power Class. Focus on Power Class 2 for NR and IoT NTN
  - Specific need for PC1 and PC1.5 need more discussion and likely require additional considerations on coexistence modelling compared to PC2
2. NGSO testing: Focus on the performance part (test case) change without revisiting core part (RF & RRM) requirements
3. <5MHz Channel BW: First verify that existing TN spec can be re-applied
4. Mobile VSAT: recently requested by NTN stakeholders
  - Compelling use-cases (e.g. automotive)
  - WRC-23 Resolution COM5/3 enabling non-GSO ESIMs in misc. frequency bands >10GHz

**Thank you!**