**3GPP TSG RAN WG1 #122bis R1-2507970**

**Prague, Czech, Oct 13th – 17th, 2025**

**Source: Ad-Hoc Chair (NTT DOCOMO)**

**Title: Session Notes of AI 9.8**

**Agenda Item: 9.8**

**Document for: Endorsement**

* 1. ***UE features for NTN for NR Phase 3***

**Agreement:**

Update FG 65-3-1 as follows:

* Type column is per band
* Confirm “Note: This UE feature group is applicable only for bands in Tables 5.2.2-1 in TS 38.101-5”, i.e., FG 65-3-1 is applicable only to FR1-NTN bands

**Agreement:**

Adopt Alt-1a for FG 65-3-1.

* Alt-1a: Confirm Component 4 with the following update:
  + ~~[~~4. Support of keeping phase continuity and power consistency across one OCC group as per requirements defined by RAN4~~]~~

**Agreement:**

Regarding FG 65-3-1,

* Support GSO/NGSO differentiation
* Adopt Alt-1 below
  + Alt-1: Add component 6 of “Supported satellite orbit for PUSCH with OCC” in components column and add “Component 6 candidate values: {(GSO), (NGSO), (GSO and NGSO)}” in note column

**Agreement:**

For FG 65-3-1,

* Put 26-1 and at least one of {5-14, 5-16, 5-17} in prerequisite column

**Agreement:**

Update FG 65-2-1 as follows:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 65-2-1 | Handling collision Case 3 ~~[~~and collision Case 4~~]~~ for half-duplex FDD operation for (e)RedCap UE | 1. Support handling collision Case 3  ~~[~~2. Support handling collision Case 4~~]~~  ~~FFS: whether to divide this FG into two separate FGs between case 3 and case 4~~ | ~~FFS:~~ 26-1, ~~26-4, 28-1,~~ 28-3, ~~48-1, 48-2~~ | YES | N/A | Handling collision Case 3 and collision Case 4 for half-duplex FDD operation for (e)RedCap UE is not supported | Per band | N/A | N/A | N/A | Note: This UE feature group is applicable only for bands in Tables 5.2.2-1 in TS 38.101-5  Note: collision Case 3: Semi-statically configured DL reception collides with semi-statically configured UL transmission  ~~[~~Note: collision Case 4: Dynamically scheduled DL reception collides with dynamic scheduled UL transmission~~]~~  Note: this FG is for FR1 FDD only  Note: collision Case 3 handling is for RRC CONNECTED and INACTIVE states~~[~~, and collision Case 4 is for RRC CONNECTED state only~~]~~ | Optional with capability signaling  ~~FFS: A UE that supports FG 28-3 in NTN band must support this FG~~ |

**Agreement:**

For FG 65-1-1,

* Put “see Note” in “Need for the gNB to know if the feature is supported” column
* Confirm “Optional with capability signalling” in mandatory/optional column
* Add in the Note column: “Note: The capability signalling is introduced to allow the NW to collect the statistics about the percentage of UEs that support this feature”

**Agreement:**

Regarding FG 65-1-5:

* Remove “[FFS other components]”

**Agreement:**

Remove [A UE that includes [XXX (signaling to be defined in 38.321)] must support FG 65-1-5] from the Note column

R1-2506787 On UE features for NR-NTN Phase 3 Ericsson

R1-2506802 Discussion on UE features for NTN Spreadtrum, UNISOC

R1-2506885 UE features for NTN for NR Phase 3 vivo

R1-2506913 Discussion on the UE feature for NR-NTN Phase-3 ZTE Corporation, Sanechips

R1-2506938 UE features for NTN for NR phase 3 Huawei, HiSilicon

R1-2506974 UE features for NTN for NR Phase 3 Xiaomi

R1-2507005 Discussion on UE features for NTN for NR Phase 3 CMCC

R1-2507077 NR-NTN phase 3 UE features Nokia

R1-2507102 Discussion on UE features for NTN for NR Phase 3 CATT

R1-2507136 Discussion on UE features for NTN for NR Phase 3 OPPO

R1-2507240 UE features for NR NTN Phase 3 Samsung

R1-2507495 Discussion on UE features for NR NTN Phase 3 ETRI

R1-2507625 Discussions on UE Features NR NTN Ph3 MediaTek Inc.

R1-2507661 Views on UE features for Rel-19 NR-NTN Apple

R1-2507707 UE features for NTN for NR Phase 3 Qualcomm Incorporated

R1-2507800 Discussion on UE features for R19 NR NTN NTT DOCOMO, INC.