**3GPP TSG RAN WG1 #122bis R1-2507972**

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

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

**Title: Session Notes of AI 9.9**

**Agenda Item: 9.9**

**Document for: Endorsement**

* 1. ***UE features for NTN for Internet of Things (IoT) Phase 3***

**Agreement:**

Adopt the following changes in FG 1-1 and 1-2

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1-1 | OCC for single-tone NPUSCH format 1 with 3.75 kHz SCS in RRC\_CONNECTED | 1. Support of symbol-level length-2 OCC for single-tone NPUSCH format 1 with 3.75 kHz SCS in RRC\_CONNECTED2. Support of TDM DMRS over 4 slots where DMRS are transmitted in the first 2 slots and DMRS REs are blanked in the next 2 slots, or vice-versa3. Dynamic activation/deactivation of OCC feature via DCI4. Whether to support combined operation of OCC and interleaved multi-TB scheduling | Rel-17 2-1b | Yes | N/A | UE does not support OCC for single-tone NPUSCH format 1 with 3.75 kHz SCS in RRC\_CONNECTED | Per UE | FDD only | N/A | Note: This FG is applicable only to IoT-NTN FDD bandComponent 4 candidate values: {support, not support} | Optional with capability signalling |
| 1-2 | OCC for single-tone NPUSCH format 1 with 15 kHz SCS in RRC\_CONNECTED | 1. Support of slot-level length-2 OCC for single-tone NPUSCH format 1 with 15 kHz SCS in RRC\_CONNECTED2. Support of CDM DMRS for NPUSCH format 1 with 15 kHz SCS3. Dynamic activation/deactivation of OCC feature via DCI4. Whether to support combined operation of OCC and interleaved multi-TB scheduling | Rel-17 2-1b | Yes | N/A | UE does not support OCC for single-tone NPUSCH format 1 with 15 kHz SCS in RRC\_CONNECTED | Per UE | FDD only | N/A | Note: This FG is applicable only to IoT-NTN FDD bandComponent 4 candidate values: {support, not support} | Optional with capability signalling |

R1-2506914 Discussion on the UE feature for NTN for Internet of Things (IoT) Phase 3 ZTE Corporation, Sanechips

R1-2506939 UE features for IoT-NTN Phase 3 Huawei, HiSilicon

R1-2507103 Discussion on UE features for NTN for Internet of Things (IoT) Phase 3 CATT

R1-2507137 Discussion on UE features for NTN for Internet of Things Phase 3 OPPO

R1-2507260 On UE features for IoT-NTN Phase 3 Ericsson

R1-2507276 UE features for IoT NTN Phase 3 Samsung