**3GPP TSG-RAN WG4 Meeting # 101-e R4-21xxxxx**

**Electronic Meeting, November 01-12, 2021**

**Agenda item:** 8.5.1.4

**Source:** CMCC

**Title:** WF on specification drafting

**Document for:** approved

# Introduction

RAN4 #90e approved a new “New WID on NR Repeaters” with RAN4 as the responsible WG, which includes development of FR1 FDD specifications as well as TDD specifications for FR1 and FR2. RAN4 #98 e-meeting is the first meeting for NR repeater and in RAN4 #100 e-meeting, the skeleton of TS 38.106 was approved. This WF lists the specification drafting work split. Companies are encouraged to draft TP for TS 38.106 in next 101-bis e-meeting.

1. Drafting rules

The candidate proposals for drafting rules are listed as below based on the 1st round discussion. Please further check whether this is OK.

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| Adopt as far as possible the structure and principles of the BS specification for repeater specification drafting.  |

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| * If it is approved that the same requirement as gNB is applicable, the same context as in BS spec is suggested to be extracted with some potential modification.
* If it is approved that the same requirement as UE is applicable, the same context as in **[UE or IAB spec]** is suggested to be extracted with some potential modification.
	+ Further check whether we should extract the context from UE spec or IAB spec based on the conclusion of RF requirements.
* For the requirements defined in both BS spec and UE spec, they should be defined in the manner of the BS with some modification.
* For the requirements that are exclusive for repeater, the context as in TS 36.106 can be referred as the baseline.
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1. Work splits

The work splits for NR repeater are listed as below.

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| Agenda item | Responsible company |
| 1. scope2. References3. Definitions of terms, symbols and abbreviations | Qualcomm |
| 4. general5. operating bands | CATT |
| 6.1 general6.2 repeater output power7.1 general7.2 repeater output power | Huawei (RK) |
| 6.3 frequency stability6.4 out of band gain7.3 OTA frequency stability7.4 OTA out of band gain | Ericsson |
| 6.5 unwanted emissionsMay include OBUE, ACLR, spurious emission requirements.7.5 OTA unwanted emissionsMay include OBUE, ACLR, spurious emission requirements. | Nokia |
| 6.6 Error vector magnitude7.6 OTA Error vector magnitude6.7 input intermodulation7.7 OTA input intermodulation | CMCC |
| 6.8 output intermodulation7.8 OTA output intermodulation6.9 Adjacent channel rejection ratio (ACRR)7.9 OTA Adjacent channel rejection ratio (ACRR) | ZTE |
| 6.10 ON/OFF time mask7.10 ON/OFF time maskAnnex A (normative) Environmental requirements for the Repeater equipment | CATT |