**3GPP TSG RAN Meeting #91e RP-210197**

**Electronic Meeting, March 22 - 26, 2020**

**Source: TSG RAN WGx Chairperson**

**Title: Terms of Reference (ToR) for 3GPP TSG RAN WG4 (RAN4)**

**Agenda item: 5.4**

**Document for: APPROVAL**

# Name

*Name, Acronym and short label/short name that can be used to identify the WG*

*This will be used in the figure/schema describing the 3GPP structure*

Name: 3GPP TSG RAN WG4

Acronym: RAN4

Label: *Radio Performance and Protocol Aspects*

# Overview

*This part will be used on the 3GPP website to describe the WG (e.g. WG homepage)*

*This overview is divided into two parts:*

* *Brief overview of the main responsibilities of the WG activities.*
* *Current activities of WG.*

*This overview should be in a simple and accessible language that makes it easy to understand for everyone*

*Avoid the use of terms like stage 1, stage 2, stage 3 and use instead e.g. service requirements, functional requirements/functional architecture, protocol specification, etc.*

*Avoid as much as possible the use of (too much) acronyms, except when there are well known (e.g. 5G, IP, HTTP, etc.).*

Within the 3GPP Technical Specification Group Radio Access Network (TSG RAN), 3GPP TSG RAN WG4 (RAN4) is responsible for the following aspects. RAN4 works on the Radio Frequency (RF) aspects of UTRAN/E-UTRAN/NR. RAN4 performs simulations and derives the minimum requirements for transmission and reception parameters, Radio Resource Management (RRM), and for channel demodulation and Channel State Information (CSI) reporting. Once these requirements are set, the group defines the test procedures that will be used to verify them for BS, Repeater, Relay and Integrated Access Backhaul (IAB). Requirements for other radio elements, like Repeaters, Relay, and IAB are specified in RAN4 as well. In addition, OTA requirements and testing methods for both BS and UE are defined in RAN4.

# Scope of Responsibilities

*This part is mainly for 3GPP internal purpose (e.g. WG coordination)*

*This part would not be used on the 3GPP website, except if deemed requested.*

*Instead the following text will be found on the 3GPP website:*

*"The latest terms of reference were approved at TSG#xx in document RP-21xxxx."*

*including a hypertext link to download the full document approved by the parent TSG. People interested by the technical details will have access to them by clicking on the hypertext link.*

Within the 3GPP Technical Specification Group Radio Access Network (TSG RAN), 3GPP TSG RAN WG4 (RAN4) is responsible for the development of specifications dealing with UTRA, Evolved UTRA, NR, and beyond:

RF specification for Base Station, Repeater, Relay, Integrated Access Backhaul (IAB) and Terminal.

Base Station, Repeater, Relay, and IAB conformance test specifications

Base Station, Repeater, Relay, IAB, and Terminal EMC specifications

Radio Resource Management (RRM) requirements specification

Performance requirements specifications for Demodulation and CSI reporting for Base Stations, Relay, IAB, and Terminals

Definition of Over-the-Air (OTA) requirements and testing methods for Base Stations, Repeaters, Relay, IAB, and Terminals.

# Annex (informative):

*Any additional relevant information, including:*

*- Coordination with other 3GPP WGs*

*- Coordination with other SDO/MRP (e.g. ITU (-T, -R), IETF, GSMA, TC SCP, etc.)*