**3GPP TSG RAN Meeting #91e RP-210198r1**

**Electronic Meeting, March 16 - 26, 2020**

**Source: TSG RAN WG5 Chairperson**

**Title: Terms of Reference (ToR) for 3GPP TSG RAN WG5 (RAN5)**

**Agenda item: 5.5**

**Document for: APPROVAL**

# Name

Name: 3GPP TSG RAN WG5

Acronym: RAN5

Label: Mobile terminal conformance testing

# Overview

Within the 3GPP Technical Specification Group Radio Access Network (TSG RAN), the 3GPP TSG RAN WG5 (RAN5) is the Conformance Testing Group for User Equipment (UE). The main objective of RAN5 is the development of UE conformance test specifications at the Radio Interface dealing with GERAN, UTRA, Evolved UTRA(E-UTRA), 5G NR and beyond based on 3GPP core specifications. The test specifications are mainly based on the requirements defined by other groups such as RAN WG4 for the radio test cases and RAN WG2 and CT WG1 for the protocols test cases. RAN WG5 is organised in two subgroups, RF subgroup and Signalling (SIG) subgroup.

RAN WG5 is currently responsible for:

* RF conformance tests in coordination with the other relevant RAN working groups.
* RRM conformance tests in coordination with the other relevant RAN working groups.
* Positioning conformance tests in coordination with the other relevant RAN working groups.
* GERAN, UTRA, E-UTRA, 5G NR and beyond; IMS, NAS, EPC,5GC, Positioning and Mission Critical Services protocol tests in coordination with the other relevant RAN, CT and SA working groups.
* Tests to cover Inter RAT procedures (GERAN, UTRA, E-UTRA and 5G NR).
* The formal description (prose) of protocol test cases for UTRA, E-UTRA, 5G NR and beyond; Inter RAT, IMS, NAS, EPC,5GC, Positioning and Mission Critical Services using TTCN in coordination with MCC TF160.

# Scope of Responsibilities

The 3GPP TSG RAN WG5 is responsible for:

* RF conformance tests in coordination with the other relevant RAN working groups.
* RRM conformance tests in coordination with the other relevant RAN working groups.
* Positioning conformance tests in coordination with the other relevant RAN working groups.
* GERAN, UTRA, E-UTRA, 5G NR and beyond; IMS, NAS, EPC,5GC, Positioning and Mission Critical Services protocol tests in coordination with the other relevant RAN, CT and SA working groups.
* Tests to cover Inter RAT procedures (GERAN, UTRA, E-UTRA and 5G NR).
* The formal description (prose) of protocol test cases for UTRA, E-UTRA, 5G NR and beyond; Inter RAT, IMS, NAS, EPC,5GC, Positioning and Mission Critical Services using TTCN in coordination with MCC TF160.
* Providing guidance to MCC TF160 on its work priorities based on the anticipated needs of the wider test industry.
* For the delivery of UE conformance test specifications to meet the needs of the GERAN, UTRA, E-UTRA, 5G NR and beyond related test industry in so far as resources allow. Therefore, RAN5 will need to liaise directly with the relevant industry fora in order to determine its priorities and overall work plan.

In addition, RAN5 may be requested to prepare a set of test procedures for which there may not be associated defined requirements in the 3GPP core specifications. Any such proposal would need to be approved at the RAN Plenary.

# Annex (informative):

None