3GPP TSG-RAN WG3 Meeting #111-e R3-21xxxx

E-meeting, 25 January – 4 February, 2021

**Agenda item: 15.2**

**Source: Nokia (moderator)**

**Title: (TP for TR 38.890) RAN3#111-e agreements on mobility**

**Document for: Text Proposal**

# 1 Introduction

ThisTP captures agreements on mobility taken at RAN3#111-e.

The following TPs towards clause 6.6 of the TR were submitted to the present meeting:

* R3-210529 (Ericsson)
* R3-210658 (Nokia, Nokia Shanghai Bell)
* R3-210771 (CATT)
* R3-210849 (ZTE)
* R3-210863 (Huawei)

# Annex - TP for TR 38.890 v0.2.0

<<< start of changes >>>

## 6.6 Support for Mobility

Seamless mobility is a key functionality in NR and its impacts should be measurable at the application layer. To enable measuring the impact of the mobility on the application and users’ QoE, it is required to support QoE measurement reporting continuity in intra-system intra-RAT intra-node and inter-node handover scenarios at least for signalling based QoE.

Editor's NOTE: Management-based activation to be further checked.

In LTE, to support the QoE measurement in mobility scenarios, the QoE configuration is forwarded from the source eNB to the target eNB as part of *Trace Activation* IE over X2 interface. The same IE is sent over S1 interfaces for mobility scenarios when the X2 interface is not established between the source and target.

In NR, to support mobility for QoE measurements in CONNECTED state, the QoE measurement configuration transfer is supported on the Xn and NG interfaces, inside the *Trace Activation* IE. To support keeping QoE measurement configuration in INACTIVE state mobility, QoE measurement configuration for a UE can be fetched from the node hosting the UE Context.

In addition, the SA4 requirements for QoE measurements stipulate that the client shall check the QoE configuration only when a session starts. This means that the client shall continue the QoE measurements for an ongoing session even if the UE moves out of the configured area. The SA4 requirements are RAT-independent and shall therefore be applied to the mobility solution for QoE measurement in NR, as well. QoE measurement reporting continuity in intra-system inter-RAT handover scenarios should therefore be prioritized in Rel-17. QoE measurement reporting continuity in inter-system handover scenarios may be handled in Rel-18. Appropriate action for the case where the target RAT does not support the source RAT configurations (including QoE configuration) is to be defined in normative phase in coordination with RAN2. Other issues requiring clarification in normative phase include how the area scope is configured to cover inter-RAT/inter-system, how service continuity is dealt together with QoE measurements, how the target RAT/System know if the source side has configured the QoE measurement for the concerned UE.

Editor's NOTE: the solutions enabling the fulfilment of the SA4 QoE requirements are FFS.

Editor's NOTE: FFS whether inter-RAT and/or inter-system mobility for QoE measurements should be supported.

Editor's NOTE: FFS whether, and under which conditions, the target node may decide the subsequent handling of management based QoE configuration.

For support of MR-DC, choice between on or more of the following alternatives may be done in normative phase:

* Alternative 1: No support - only the MN can configure QoE in the UE, and QoE measurement reports are sent from the UE to the MN.
* Alternative 2: Flexible QoE configuration, i.e. may be done by either MN or SN.
* Alternative 3: Flexible QoE measurement reporting, i.e. may be done via either MN leg or SN leg (e.g. depending on load situation).

Alternatives 2 and 3 may be combined.

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