3GPP TSG-RAN WG3 Meeting #121 R3-234624

Toulouse, France - 21st – 25th August 2023

Agenda Item: 11.2

Source: Lenovo (moderator)

Title: Summary of Offline Discussion on CB: # QoE1\_Inactive

Document for: Approval

# Introduction

This contribution provides the summary of offline discussion on:

**CB: # QoE1\_Inactive**

**- Work on the reply LS/LSs as above**

**- Capture agreements and open issues**

(moderator - Lenovo)

Summary of offline disc [R3-234624](Inbox%5CR3-234624.zip)

# For the Chairman’s Notes

**Proposal 1: Additional legacy QoE and RVQoE related information which are used for RRC\_CONNECTED state is listed as below:**

* **Service type**
* **WA: Available RVQOE metrics**
* **Session status: From RAN3’s point of view, it is beneficial that UE that comes back from RRC\_IDLE/INACTIVE to RRC\_CONNECTED state indicates the session status to RAN.**
* **Slice scope – Not needed for broadcast. FFS on multicast.**
* **MDT alignment information: FFS**
* **Area scope -FFS**

**Proposal 2: Send LS to RAN2 and SA2 to check feasibility of both UE based and CN based solutions and ask RAN2 to confirm RAN3’s understanding on session status in R3-23xxxx (Ericsson)**

**Proposal 3a: When a UE is in the RRC\_CONNECTED state, the area scope checking is done by the RAN, based on the Area Scope of QMC IE, in line with the current network behavior.**

**Proposal 3b: It is confirmed that when the UE is in RRC\_IDLE or RRC\_INACTIVE state, UE performs area scope checking. Whether UE AS layer or application layer performs area scope checking depends on RAN2 and SA4.**

**Proposal 4: Send response LS to RAN2 in R3-23xxxx (Samsung)**

# Discussion

UE based solution or CN based solution

For the UE-based solution, an LS needs to be sent asking SA3 to confirm whether it is acceptable to store at the UE the information currently only available at the network side.

For the CN-based solution can be adopted, RAN3 needs to send an LS asking SA2 to confirm the feasibility of the CN storing the information on behalf of the gNB that released the UE to RRC\_IDLE, which the CN would later return to the reconnecting gNB.

**Work on LS(s) to other related WGs to check the feasibility of UE based solution and CN based solution in this meeting.**

**Legacy QoE and RVQoE related information which are used for connected mode to be further discussed.**

**Additional Legacy QoE and RVQoE related information which are used for connected mode are listed as below:**

* Service type
* WA: Available RVQOE metrics
* session status-~~FFS (whether the UE that comes back connected mode indicates QoE measurement status to RAN.)~~ From RAN3’s point of view, it is beneficial that UE that comes back from RRC\_IDLE/INACTIVE to RRC\_connected state indicates session status to RAN. Ask RAN2 to discuss it in the LS
* MDT alignment information (FFS- whether the trace ID of MDT measurement is still valid in the new gNB)
* Area scope -FFS (it is pending to the other open issue on area scope checking)
* Slice scope – not needed for broadcast. FFS on multicast.

We will list above agreed information in the LS and ask RAN2 and SA2 to check the feasibility of both solutions.

CN based solution: Ericsson, QC, Nokia 3

UE based solution: Xiaomi, SS, ZTE, CU, CATT, HW 6

--- how UE reports the information e.g. in which message?

* ~~Application container?~~

Area Scope Checking

* When a UE is in the RRC\_CONNECTED state, the area scope checking is done by the RAN, based on the *Area Scope of QMC* IE, in line with the current network behavior.

It is confirmed that when the UE is in RRC\_IDLE or RRC\_INACTIVE state, UE performs area scope checking. Whether UE AS layer or app layer performs area scope checking depending on RAN2 and SA4.

# References