**3GPP TSG-RAN WG3 #122 R3-23XXXX**

**Chicago, USA, 13th – 17th Nov 2023**

**Title:** Summary of offline discussion on CB on QoE others in 11.4

**Source:** Huawei

**Agenda item:** 8.3

**Document Type:** discussion and decision

# 1. Introduction

This contribution tries to capture the offline discussion on QoE others in 11.4

# 2 For the Chairman’s Notes

# 3. Discussion

## 3.1 QoE measurement status indication to target node during CHO

According to the contributions in [1] and [2], there are mainly two options.

**- UE-based solution**

**- Network-based solution**

**Companies’ view:**

|  |  |
| --- | --- |
| Company | Comment |
| Huawei | We think UE-based approach should be enough, it is simple and re-use existing UE behaviour, then we may need an LS to RAN2 indicating RAN3 conclusion |
| Qualcomm | When we say UE based solution, **what additional RAN2 impacts are foreseen**? R17 IE ***appLayerSessionStatus-r17*** is already sent over SRB4 (along with the 1st QoE report) with {start, stop} codepoints. Is the intention to reuse this IE or send the QoE measurement status indication in an earlier message (e.g., MSG5) in case of CHO? In that case, **we think this would be duplicate with existing IE in Rel-17** and we don’t prefer this. Also it is still open in RAN2 in which RRC message the ongoing session status would be added in case of QoE for RRC\_IDLE/RRC\_INACTIVE.  The following network-based solution proposed in [1] instead seem simple and can be pursued instead of the UE based solution (which would need RAN2 impacts):   * If the source gNB receives the session start, stop/end indications from the UE, it does not forward the updates to all candidate gNBs. The target gNB to which the UE connects to after successful evaluation of a CHO configuration, sends to the source gNB a HO success indication, and then the source gNB sends to the target gNB the QoE measurement session status in the **SN STATUS TRANSFER message.** |
| Samsung | We think the existing R17 mechanism is enough, i.e. the UE sends the session status to the new connected gNB. |
|  |  |
|  |  |

## 3.2 Inter-RAT mobility

**According to the contributions, we could summarize the following issues:**

1. Clarifications to CGI, indicating either NR CGI or E-UTRA CGI in 38.413 [6]
2. Release configured QoE measurement configurations during HO from NR to LTE [4]

* Reuse the legacy QoE configuration release procedure or,
* The UE release all the NR QoE configurations when it receives MobilityFromNRCommand

1. Stage 2 clarifications or stage 3 clarifications or both

Stage 2: 38.300 [7], stage 3: 38.413/38.423. [1]

|  |  |
| --- | --- |
| Company | Comment |
| Huawei | For 1), we think the clarification is correct, the CGI could indicate either NR or E-UTRA;  For 2), we think the reuse of existing procedure is a simpler approach;  For 3), at least stage 2 clarifications to 38.300 is anyway needed; for clarifications to stage 3 38.423 and 38.413, we think there is no need, it is network implementation to follow the restriction which follows the general instructions captured in stage 2. |
| Qualcomm | 1. OK 2. During inter-RAT mobility from NR to LTE, the UE should release all the NR QoE configurations when it receives the MobilityFromNRCommand and can be configured with a new LTE QoE configuration by target ng-eNB. 3. OK with stage 2 TP except the CHO part (this depends on section 3.1). We also think clarifications for stage 3 provided in [1] are good to have. |
| Samsung | Share view with Huawei on all bullets. |
|  |  |
|  |  |
|  |  |

## 3.3 Further additions to deactivation of RVQoE over F1

**Any further stage 2 clarifications needed in 38.401, and stage 3 in 38.473 [5]?**

|  |  |
| --- | --- |
| Company | Comment |
| Huawei | Seems not needed. For stage 2 to 38.401, seems not needed at all, anyway, deactivation purpose is clear, the added texts mainly touch stage 3 details. |
| Qualcomm | No strong view. |
| Samsung | We acknowledge the intention, but seems not needed because the current BLCR to 38.401 and 38.473 is clear enough to reflect the information on what the TP in [5] would like to add. |
|  |  |
|  |  |
|  |  |

# 4. Conclusion

Based on the discussion in this paper, we propose the following:

# 5. Reference

1. R3-237181, (TPs for QoE BL CRs for TS 38.413 and TS 38.423) Enhancements of Rel-17 QoE and RVQoE Features (Ericsson)
2. R3-237722, Further discussion on remaining open issues and leftovers (Huawei) discussion
3. R3-237658, Further discussion on other issues (ZTE, China Telecom, China Unicom, CMCC) discussion
4. R3-237243, Discussion on intra-5GC Inter-RAT handover (NEC) discussion
5. R3-237659, (TPs for BL CR of TS38.401&38.473) Deactivation of RVQoE reporting over F1AP (ZTE, China Telecom, China Unicom) other
6. R3-237717, (TP to BL CR of 38.413) Inter-RAT mobility for QoE measurement (China Unicom) other
7. R3-237723, (TP to BL CR of 38.300) on intra-system inter-RAT handover and CHO for QoE measurement (Huawei, China Telecom, China Unicom) other