**3GPP TSG-RAN WG2 Meeting #117 electronic  *R2-220xxxx***

**Online, Feb 21st – Mar 3rd 2022**

**Agenda item: 8.14.3.1**

**Source: China Unicom**

**Title: Report of [Pre117-e][008][QoE] QoE Open Issues Input (China Unicom)**

**Document for: Discussion and Decision**

# Introduction

This document is the report of the pre-117e email discussion “*[Pre117-e][008][QoE] QoE Open Issues Input (China Unicom)*”, which is based on R2-2202043.

* *[Pre117-e][008][QoE] QoE Open Issues Input (China Unicom)*

*Deadline: Monday 2022-02-14 23:59 UTC.*

This document will collect company inputs and give proposals for the open issues on R17 NR QoE.

# Contact information

Please provide your contact information when feedback:

|  |  |  |
| --- | --- | --- |
| **Company** | **Name** | **Email Address** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Discussion

According to the QoE related open issue list [1], the following open issues will be focused on in this document.

Issue 1: Whether and how the data should be retransmitted during HO.

Issue 2: Which SRB (SRB2 or SRB4) to transmit RAN visible QoE measurements.

Issue 3: Which of the following options to choose for RRC segmentation capability:

Option 1: Conditional mandatory without UE capability parameter (no extra bit)

Option 2: Optional without UE capability parameter (no extra bit)

Option 3: Optional with UE capability parameter (one extra bit)

Issue 4: Whether the Pause and resume capability is one of basic sub-features.

Issue 5: Which of the following options to choose for RVQoE capability:

Option 1: One parameter indicating whether UE supports RAN visible QoE

Option 2: Separate parameters indicating whether UE supports RAN visible QoE for each service type.

Note that issues 3~5 are related with UE capabilities.

## Open Issue 1: Retransmission of QoE reports during HO

For issue 1, it's observed in RAN2#116b-e meeting, whether and how the data (QoE reports) should be retransmitted during HO was discussed but no consensus was made. The Chair Notes can be found as follows:

* Except for restarts transmission of QoE reports after handover, The TP in the Annex of R2-2200011 is included in the running CR for QoE measurements.

During the online discussion in RAN2#116b-e, some companies wonder if it’s needed to retransmit the QoE reports during HO, and other companies also propose how and what layer shall retransmit the QoE reports need to be discussed. Thus companies are invited to provide your comments on issue1:

**Question 1: Whether the data (QoE reports) should be retransmitted during HO? If the answer is Yes, and how the QoE reports are retransmitted during HO?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comment** |
|  |  |  |
|  |  |  |
|  |  |  |

## Open Issue 2: SRB selection for RAN visible QoE

For Issue2, In R2-116-e meeting, An LS is sent to RAN3 for decision on RAN visible [2]. And RAN3 has agreed RAN2 can decide which SRB (SRB2 or SRB4) to transmit RAN visible QoE measurements at last online meeting. So the companies are invited to give comments on which SRB (SRB2 or SRB4) to transmit RAN visible QoE measurements?

**Question 2a: Which SRB (SRB2 or SRB4) to transmit RAN visible QoE measurements?**

|  |  |  |
| --- | --- | --- |
| **Company** | **SRB2/SRB4** | **Comment** |
|  |  |  |
|  |  |  |
|  |  |  |

**Question 2b: Based on the answer of Q2b, do companies have any other issues if SRB2 or SRB4 are selected?**

|  |  |
| --- | --- |
| **Company** | **Comment** |
|  |  |
|  |  |
|  |  |

## Open Issue 3~5: UE capabilities for QoE

RAN2 has discussed UE capabilities for NR QoE in the R2#116b-e meeting, but some FFSs are left for discussed and decide. Such as the following Issue 3~Issue 5 listed at [1]:

Issue 3: Which of the following options to choose for RRC segmentation capability:

**Option 1:** Conditional mandatory without UE capability parameter (no extra bit)

**Option 2:** Optional without UE capability parameter (no extra bit)

**Option 3:** Optional with UE capability parameter (one extra bit)

Issue 4: Whether the Pause and resume capability is one of basic sub-features.

Issue 5: Which of the following options to choose for RVQoE capability:

**Option 1:** One parameter indicating whether UE supports RAN visible QoE

**Option 2:** Separate parameters indicating whether UE supports RAN visible QoE for each service type.

**Question 3: For issue 3, which of the options to choose for RRC segmentation capability?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Option**  | **Comment** |
|  |  |  |
|  |  |  |
|  |  |  |

**Question 4: For issue 4, whether the Pause and resume capability is one of basic sub-features?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comment** |
|  |  |  |
|  |  |  |
|  |  |  |

**Question 5: For issue 5, which of the following options to choose for RVQoE capability?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Option**  | **Comment** |
|  |  |  |
|  |  |  |
|  |  |  |

# Conclusion

TBD

# References

[1] R2-2202043 QoE related open issue list China Unicom

[2] R2-2111603 LS on QoE visible QoE RAN2 Lsout