3GPP TSG-RAN WG2 Meeting #116e Tdoc R2-21xxxxx

November 1st - 12th 2021

Agenda: 8.14

Source: Ericsson

Title: Summary of e-mail discussion [080] Mobility

Document for: Discussion, Decision

# 1 Introduction

In this document the following e-mail discussion is handled:

* [Post116-e][080][eQoE] Mobility (Ericsson)

 Scope: Discuss whether RAN2 intends to fulfil the SA4 requirements related to mobility, what those requirements are (e.g. based on different case). Determine whether we need further clarifications by LS, and if so LS approval. In case there is need (in order to converge on mobility in general), the non-LS part of this discussion can continue in a long email discussion (and then the report is then for next meeting).

 Intended outcome: Approved LS out, Report

 Deadline: Short 2 (not for RP)

Contact information:

|  |  |
| --- | --- |
| **Company** | **Contact Name, Email** |
| Ericsson | cecilia.eklof@ericsson.com |
| Samsung | s90.jeong@samsung.com |
| vivo | panxiang@vivo.com |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# 2 Discussion

## 2.1 Possible LS to SA4

In RAN2#116e RAN2 discussed the SA4 requirements related to mobility, described in TS 26.247 clause 10.1. RAN3 previously sent an LS to SA4 (cc: RAN2) in R2-2106945 asking for clarification of the requirement and SA4 replied in R2-2109384. There were different views in RAN2 of what the reply means. An LS to SA4 for clarification could be one option to be able to proceed in RAN2. The requirement:

“*The QoE configuration shall only be checked by the client when each session starts, and thus all logging and reporting criterias for an ongoing session shall be unaffected by any QoE configuration changes received during that session. This also includes evaluation of any filtering criterias, such as geographical filtering, which shall only be done when the session starts. Thus changes to the QoE configuration will only affect sessions started after these configuration changes have been received.”*

Question 1: If RAN2 would send an LS to SA4 for clarification of their requirement in TS 26.114, what do you think the question(s) should be?

|  |  |
| --- | --- |
| **Company** | **Answer** |
| Ericsson | We could ask SA4 to describe the wanted network and UE behaviour related to mobility and release, e.g. when the UE moves out of the area and there is an ongoing session. Also, we could ask about the expected behaviour if the network needs to release the measurements for some other reason. |
| Samsung | In RAN2#116e, RAN2 showed different views on whether or not ongoing session is affected in case of release of QoE configuration. In our understanding, in LS (i.e., R2-2109384), SA4 clarified "*the logging and reporting criteria for ongoing session should be affected when the client receives a release of the QoE configuration."*. However, there were some companies who have different understanding (i.e., ongoing session is NOT affected in case of release of QoE configuration). Therefor we are fine to ask SA4 to clarify this issue. |
| vivo | We would ask SA4 the following:- What is the intention to continue the QoE measurement when the UE moves out of the target Area Scope? - How to utilize the QoE measurement outside the target Area Scope?- If the intention is to collect the QoE at the edge of specific cells, is it feasible that just extend the Area Scope, i.e., adding the neighbour cells into the target Area Scope?- Whether SA4 has any concern about the current Area Scope checking solution of RAN side (without session start/end indication from UE). Worth noting that RAN side solution will not introduce spec impact on the current client behaviour, that is, the target Area Scope is checked by RAN node.- If the RAN node needs to check the QoE session state when UE moves out of the target Area Scope, the QoE session state may always be exposed to RAN node, which will introduce user privacy concerns, is it acceptable from SA4 perspective? |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# 3 Conclusion

# 4 References

1. [R2-2109565](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2109565.zip), [QoE configuration, reporting and mobility](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2109565%20Qualcomm%20QoE%20configuration%2C%20reporting%20and%20mobility.docx), Qualcomm Incorporated, RAN2#116e, e, November 2021

1. [R2-2109662](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2109662.zip), [QoE measurement configuration and general aspects](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2109662%20Intel%20QoE%20measurement%20configuration%20and%20general%20aspects.docx), Intel Corporation, RAN2#116e, e, November 2021

1. [R2-2109832](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2109832.zip), [Further discussion on transmission of QoE reports](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2109832%20Lenovo%20Further%20discussion%20on%20transmission%20of%20QoE%20reports.docx), Lenovo, Motorola Mobility, RAN2#116e, e, November 2021

1. [R2-2109866](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2109866.zip), [Configuration and reporting of QoE measurements](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2109866%20Ericsson%20Configuration%20and%20reporting%20of%20QoE%20measurements.docx), Ericsson, RAN2#116e, e, November 2021

1. [R2-2109867](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2109867.zip), [QoE measurements at handover, resume and re-establishment](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2109867%20Ericsson%20QoE%20measurements%20at%20handover%2C%20resume%20and%20re-establishment.docx), Ericsson, China Unicom, RAN2#116e, e, November 2021

1. [R2-2109984](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2109984.zip), [Discussion on QoE configuration](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2109984%20vivo%20Discussion%20on%20QoE%20configuration.docx), vivo, RAN2#116e, e, November 2021

1. [R2-2110073](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2110073.zip), [Supporting mobility for NR QoE](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2110073%20Apple%20Supporting%20mobility%20for%20NR%20QoE.docx), Apple, RAN2#116e, e, November 2021

1. [R2-2110099](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2110099.zip), [Discussion on QoE measurement collection in NR](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2110099%20OPPO%20Discussion%20on%20QoE%20measurement%20collection%20in%20NR.docx), OPPO, RAN2#116e, e, November 2021

1. [R2-2110605](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2110605.zip), [Discussion on QoE measurement configuration and reporting](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2110605%20Huawei%20Discussion%20on%20QoE%20measurement%20configuration%20and%20reporting.docx), Huawei, HiSilicon, RAN2#116e, e, November 2021

1. [R2-2110720](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2110720.zip), [QoE configuration handling](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2110720%20Nokia%20QoE%20configuration%20handling.docx), Nokia, Nokia Shanghai Bell, RAN2#116e, e, November 2021

1. [R2-2110991](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2110991.zip), [Discussion on NR QoE configuration](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2110991%20ZTE%20Discussion%20on%20NR%20QoE%20configuration.docx), ZTE Corporation, Sanechips, RAN2#116e, e, November 2021

1. [R2-2110993](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2110993.zip), [Discussion on NR QoE configuration](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2110993%20CATT%20Discussion%20on%20NR%20QoE%20configuration.docx), CATT, RAN2#116e, e, November 2021

1. [R2-2111062](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2111062.zip), [Remaining issues on configuration and reporting](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2111062%20CMCC%20Remaining%20issues%20on%20configuration%20and%20reporting.docx), CMCC, RAN2#116e, e, November 2021

1. [R2-2111132](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2111132.zip), [QoE configuration in general aspects](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2111132%20Samsung%20QoE%20configuration%20in%20general%20aspects.docx), Samsung, RAN2#116e, e, November 2021

1. [R2-2111133](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2111133.zip), [RRC segmentation for QoE configuration and report](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2111133%20Samsung%20RRC%20segmentation%20for%20QoE%20configuration%20and%20report.docx), Samsung, RAN2#116e, e, November 2021

1. [R2-2111188](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2111188.zip), [Discussion on NR QoE measurement and configurations](file:///c%3A%5C3GPP_RAN1%5CRAN2_116e_e%5C8.14.2%5CR2-2111188%20China%20Discussion%20on%20NR%20QoE%20measurement%20and%20configurations.docx), China Unicom, RAN2#116e, e, November 2021