3GPP TSG-RAN WG3 Meeting #107-e R3-201129

E-meeting, 24 February – 6 March, 2020

**Agenda item: 10.2.1.1**

**Source: Huawei**

**Title: Summary of offline discussion for
CB: # 26\_Email026-UErepMobHistory**

**Document for: Discussion**

# 1 Introduction

This document lists proposals submitted to RAN3#107-e under AI 10.2.1.6 with the proposed scope:

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| --- |
| **CB: # 26\_Email026-UErepMobHistory****- Use the same approach in NR for UE reported history information as in LTE in of Handover Preparation procedures over the NG and Xn interface, Discard the UE reported history information when items from the visited cell info is discarded, Capture functionality for network collected UE history information together with the UE reported history information? (HW,BT,CU), (CMCC)****- RAN transfers the UE reported mobility history information to the other node by UE context retrieve procedure and handover preparation procedures over Xn/NG; Allow “UE History Information” IE in XnAP and NGAP to include visited cells UE reported by UE? (QC)****- include UE history information from UE in handover preparation procedure, which influences Xn and NG interface, but do not include UE history information from UE in Retrieve UE Context procedure? (CATT), (ZTE), (LG)****- St2 needed?****- split work; merge if needed; check details**(HW)Summary of offline disc [R3-201129](file:///D%3A%5C3GPP%20Meetings%5CWG3_Iu%5CTSGR3_107_e%5CDrafts%5CCB%20%23%2026_Email026-UErepMobHistory%5CInbox%5CR3-201129.zip) |

Expected outcome is related TPs for XnAP, NGAP and possibly stage2. It is proposed to allocate the TPs to the companies handling the associated BL CR

Companies are invited to include their comments in the present document if possible by

* **Wednesday, Feb. 26, end of business (midnight) CET,**

giving a chance for companies in charge of producing TPs to prepare first drafts based on the discussion status by

* **Thursday, Feb. 27, 6 PM CET.**

In the next section, a set of potential agreements has been formulated in an attempt to identify possible agreements.

# 2 Discussion

## 2.1 Using a container or using existing IE

Two main alternatives are proposed:

1. re-use the existing IE by taking the information from the UE and inserting into the *UE History Information* IE
2. re-use the principle from LTE and create a separate IE: *UE history information from UE*

The benefit of option 1 is that this reduces the impact on the specification.

The benefit of option 2 is that it separates the information so that the receiving node can understand the source of the information (from the UE or from the network). Further, there are some other small issues, e.g. that the *cellType* IE is mandatory in the network reported UE history.

The majority of the companies seems to prefer option 2 and to include this for HO signalling on Xn and NG.

**Proposal 1: introduce a new IE: *UE history information from the UE* and capture this for mobility in XnAP and NGAP**

**OK (list of company names):**

HW, ZTE, CMCC, LG,CATT, Ericsson, DT, Sam

**Not OK (list of company names):**

**Further comments:**

|  |  |
| --- | --- |
| **Company** | **Comments**  |
| **QC** | Actually, in last meeting, we proposed option 2 (LTE style) 😊. Before this meeting, after checking the running CRs, we found existing *UE History Information* IE could carry the UE reported mobility history. So, this time, we proposed option 1. As the rapporteur summarized, “the benefit of option 1 is that this reduces the impact on the specification” without any functional loss. Then, why not take the easy way. On the potential benefit of differentiating UE reported and RAN collected history, we don’t have use case to differentiate them.  |

## 2.2 On the need for stage 2

Some companies provide a proposed stage2 impact. The proposal seems to be aligned with LTE. One benefit of adding the stage2 is that we clearly describe how long this information shall be propagated. This was one of the main discussion when the topic was discussed in LTE. Further, it seems as the UE history is not yet captured-

**Proposal 2: Capture UE history (both network and UE reported) in stage2**

**OK (list of company names):**

HW,ZTE, CMCC, LG,CATT, Ericsson, DT, QC, Sam

**Not OK (list of company names):**

**Further comments:**

|  |  |
| --- | --- |
| **Company** | **Comments**  |
|  |  |

# 3 Conclusion

Conclusion

**Introduce a new IE: *UE history information from the UE* and capture this for mobility in XnAP and NGAP**

**Capture UE history (both network and UE reported) in stage2**