3GPP TSG-RAN WG3 #114bis-e R3-221069

**E-meeting, 17th – 26th January 2022**

Source: CATT (moderator)

Title: Summary of offline discussion for CB: # 2003\_NTN\_Country\_Routing

Agenda Item: 20.2.5

Document for: Approval

# Introduction

**CB: # 2003\_NTN\_Country\_Routing**

**-Should a new cause value be added to notify AMF of a UE context release due to unsuitable serving PLMN?**

**-Can a UE context release due to unsuitable serving PLMN be expressed by means of existing cause values?**

**-Capture agreements and provide TPs if agreeable**

(CATT - moderator)

Summary of offline disc [R3-221069](file:///C:\Users\chuberrn\Documents\Inbox\R3-221069.zip)

The deadline for the first phase is 00:00 UTC on Saturday, January 22.

# For the Chairman’s Notes

TBD.

# Discussion (first phase)

All of the TDocs raised this meeting focuses on whether we should introduce a new IE to indicate the requested UE release is due to country policy issue, i.e. the UE is currently outside the serving area of a PLMN.

Five companies preferred to introduce a new cause value dedicated for this scenario [1][2][4][5][6].

One company preferred not to add new cause vaule [3].

**Questions 1**: What is your opinion on whether a new cause value should be introduced?

| Company | Comment |
| --- | --- |
| CATT | We prefer yes, following the majority.  The reason provided in [3] did not seem very arguable. For example, it didn’t even clearly state what legacy cause value should be used and why it wouldn’t incur misunderstanding. |
| Thales | We suggest to follow majority and agree on new cause value |
| Ericsson | It’s not the task of the WG to clarify which cause value shall be used. Normally that’s part of deployment planning.  It seems that both AMF and RAN can independently trigger UE context release due to country policy issue. If so, we need to clarify whether these should be separate actions, i.e. whether a release should be triggered e.g. by the AMF simply by receiving a cause value from e.g. the RAN. |
| Nokia | A new cause value may be beneficial.  Not sure whether this cause other issue. For example, normally (or in current network), AMF should initiate the UE Context Release procedure upon reception of a UE CONTEXT RELEASE REQUEST message. but in this case, the AMF may need to initiate a further location check, or de-registration procedure, rather the UE context release procedure. |
| China Telecom | Prefer yes, a new cause value may be beneficial. |
| Samsung | Yes. A new cause is beneficial. |

**Questions 2**: Any other comment, e.g. the name of the cause value?

| Company | Comment |
| --- | --- |
| CATT | On the name of the new cause value, contributions [2][4][5] provide the same name “UE not in PLMN serving area”, and [1] provide a similar name.  To make life easier, prefer to follow the majorities, add the new cause value with the name “UE not in PLMN serving area”. Corresponding TPs could be merged together. |
| Thales | Ok for “UE not in PLMN serving area” as new cause value name |
| Ericsson | Assuming we clarify the usage scenario as per our comment to the previous question, the name seems appropriate. |
| Nokia | ok for the name, and prefer to add it as a NAS cause value. |
| China Telecom | Fine with “UE not in PLMN serving area”. |
| Samsung | Ok for the name. |

# Conclusion, recommendations [if needed]

# Reference

1. R3-220285; (TP for BL CR for 38.300) Final aspects of country border crossing; Qualcomm Incorporated.
2. R3-220464; New paging cause for UE Context Release Request; Huawei.
3. R3-220628; Country Routing and Cause Value for UE Context Release; Ericsson LM.
4. R3-220714; (TP for NTN BL CR 38.413) On Cause Value for Cross-country Scenario; CATT.
5. R3-220860; Discussion on Country-Specific Routing; CMCC.
6. R3-220896; (TP for BL CR 38.413) Country-specific Routing for NTN; ZTE.