3GPP TSG-RAN WG2 Meeting #125bis draft-R2-24XXXXX

Athens, Greece, 26 February – 01 March 2024

**Agenda item: 7.24.2**

**Source: Apple, and TBD**

**Title: Summary of [POST125][022][RedCap emergency calls] Discussion**

**Document for: Discussion and Decision**

# 1 Introduction

This summarizes the discussion on EM call handling for RedCap and eRedCap.

# 2 Discussion on Deployment Scenarios and Emergency Call support

In RAN2-125, the following was agreed regarding EM call support for RedCap UEs in RedCap supporting cells.

[R2-2401347](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_125\Docs\R2-2401347.zip) RedCAP/eRedCAP and Emergency call handling Vodafone, Apple Inc, Verizon, Deutsche Telekom, BT Plc, TMobile USA, Ericsson discussion Rel-18

- LG agrees the intention but the field should be condpresence rather than need R as then it wouldu be ambiguous.

- CATT would like to understand case 3 better. Apple explains the intention is not Iot bit, we would like to allow emergency calls even in the case that the UEs are barred.

- Qualcomm agrees to general intention but doesn’t see why we don’t support this for both 1rx and 2RX, and expand the use case for 1 and 2. Huawei and Vivo agrees with Qualcomm to make it common.

- ZTE thinks case 3 is a real case that we will have. Some cases wouldn’t happen in the field. Case 1 can but even that may not needed.

- BT hasn’t seen the case for 2RX, and if we bar both 1RX and 2RX it is because we want to bar all redcaps. Vodafone explains that common understanding between operators that scenario configuration is not very common. Tmobile agrees, so we should just move forward with case 1.

- Qualcomm thinks that different operators have different plans, like for case 2 there are some operators that would like to deploy 1RX and 2RX in different freq.

=> Noted

**Agreements:**

1. Agree to the feature of allowing emergency calls for barred RedCap UEs. The network indicates in SIB whether the UE is allowed to initiate emergency calls.

2. We will create a common framework for the cases (i.e. we will not cover only case 3)

* [POST125][022][RedCap emergency calls] Review CRs (Apple)

Deadline: March 28, 2024

Since we agreed to create a common framework and not limit to case 3 alone, the moderator requests companies to evaluate and provide view on the other cases.

The following table from [1] is used as the discussion point to see if any of the cases (in addition to case1, case 2 and case 3) need to be considered.

**Companies are requested to fill in their view “if” they consider other cases are to be considered.** The moderator has included initial views.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Scenario Number | Description | MIB Setting of cellBarred | SIB1 Settings | Possible use case | **Comments from companies** |
| 1 | In this case, Operator does not bar Non-RedCAP UEs, Implement the support RedCAP UEs, but bar them | Not-barred | cellBarredRedCap1Rx-r17: barred  cellBarredRedCap2Rx-r17: barred  intraFreqReselectionRedCap: Present | The operator wants to bar RedCAPs temporarily using barring bits in SIB1, but still like to allow emergency from 1Rx and 2Rx to be performed on this carrier. | *[Apple] This case is considered in the CRs. There was some support for this in RAN2-125 and so it is considered for discussion.* ***Companies are requested to comment here if they strongly oppose it.***  *[Company XYZ] Comment here.* |
| *1a* | *In this case the operator A has not deployed RedCAP and Operator B did deployed it and the customer of operator B roams into the NW of Operator A* | *Operator A settings*  Not-barred | *Operator A settings*  *cellBarredRedCap1Rx-r17: Not present*  *cellBarredRedCap2Rx-r17: Not present*  *intraFreqReselectionRedCap: Not present* | *The customers of operator who deployed RedCAPs should perform emergency calls in the networks which have not implemented Redcap.* | *[Apple] This case is NOT considered. Main reason – if the cell does NOT support redcap, EM call cannot be handled in all cases.*  *[Company XYZ] Comment here.*  *[Huawei] Agree not to support RedCap UE accessing the cell not support/allow RedCap.*  *[Ericsson] Agree that this case is NOT considered.* |
| *2* | *In this case, Non- RedCAP UEs are allowed and 1Rx RedCAP UEs are allowed, but 2Rx RedCAP UEs are barred* | Not-barred | *cellBarredRedCap1Rx-r17: non barred*  *cellBarredRedCap2Rx-r17: barred*  *intraFreqReselectionRedCap: Present* | *Not identified yet* | *[Apple] This case is considered in the CR. While there were questions on the practicality of this, considering case 1 above, case 2 should have equal claim for validity assume….*  *[Company XYZ] Comment here.* |
| *2a* | *This is the same case as 2 with the difference that the operator also bar Non-redCAP UEs* | *Barred* | *cellBarredRedCap1Rx-r17: non barred*  *cellBarredRedCap2Rx-r17: barred*  *intraFreqReselectionRedCap: Present* | *not a valid case as all UEs are barred in the cell* | *[Apple] Not considered, as the intent is to bar all UEs.*    *[Company XYZ] Comment here.*  *[Ericsson] Agree that this case is not considered.* |
| 3 | In this case, the operator allows Non-redCAP UEs and 2Rx to enter the cell, but bar 1Rx | Not-barred | cellBarredRedCap1Rx-r17: barred  cellBarredRedCap2Rx-r17: not barred  intraFreqReselectionRedCap: present | The operator has not deployed 1Rx on a particular carrier and bar such UEs, but wants to allow e.g. roaming UEs supporting 1Rx to be able to perform emergency calls | *[Apple] This case is considered in the CR.*  *[Company XYZ] Comment here.* |
| *3a* | *This is the same case as 3 with a difference that NON-Red CAP UEs are barred* | *Barred* | *cellBarredRedCap1Rx-r17:  barred*  *cellBarredRedCap2Rx-r17:not barred*  *intraFreqReselectionRedCap: Present* | *not a valid case as all UEs are barred in the cell* | *[Apple] Not considered, as the intent is to bar all UEs.*  *[Company XYZ] Comment here.*  *[Ericsson] Agree that this case is not considered.* |
| *4* | *This is the case where operator is blocking Non redCAP, implemented Redcap, but block both 1Rx and 2Rx.* | *Barred* | *cellBarredRedCap1Rx-r17: barred*  *cellBarredRedCap2Rx-r17: barred*  *intraFreqReselectionRedCap: Present* | *not a valid case as all UEs are barred in the cell* | *[Apple] Not considered, as the intent is to bar all UEs.*  *[Company XYZ] Comment here.*  *[Ericsson] Agree that this case is not considered.* |
| *5* | ***Any other cases?*** |  |  |  |  |

# Conclusion

**To be filled**

# References

[1] [R2-2401347](file:///C:\Users\panidx\OneDrive%20-%20InterDigital%20Communications,%20Inc\Documents\3GPP%20RAN\TSGR2_125\Docs\R2-2401347.zip) RedCAP/eRedCAP and Emergency call handling Vodafone, Apple Inc, Verizon, Deutsche Telekom, BT Plc, TMobile USA, Ericsson discussion Rel-18