3GPP TSG-RAN WG3 #112-e R3-212665

Online, May 17th - May 28th, 2021

Agenda Item: 10.2.3

Source: CMCC (moderator)

Title: Summary of support of inter-system inter-RAT energy saving

Document for: Discussion and Decision

# Introduction

**CB: # 1209\_SONMDT\_InterSystemEnergy**

**- Topics to discuss:**

**- Stage-2 and stage-3 details of minimum activation time**

**- Any other topic based on contributions submitted**

**- If possible, attempt to work on TPs – use summary of offline if needed**

(CMCC - moderator)

Summary of offline disc [R3-212665](Inbox\R3-212665.zip)

This CB# 1209 will be organized in two phases:

**Phase 1: Converge on Stage2 or Stage3 details of minimum activation time**

**Phase 2: Work on agreeable TPs**

The deadline for Phase 1 isThursday, May 20, end of day.

The deadline for Phase 2 depends on the progress of Phase 1.

# For the Chairman’s Notes

TBD

# Discussion

## Minimum Activation Time

In previous meetings, we reach the agreement that **minimum activation time to reduce ping-pong is beneficial.** There is still no alignment whether to specify the minimum activation time in stage 2 or stage 3. Regard to the reference papers, three options are proposed to handle the minimum activation time.

* **Option 1: Specify the minimum activation time in stage 3, same approach as LTE.**

The coverage cell sets the minimum activation time and sends the minimum activation time to the capacity cell [1][3].

* **Option 2: Specify the minimum activation time in stage 2. It should be configurable by OAM at the capacity cell.**

The minimum time an NG-RAN node's cell should remain activated upon reception of a re-activation request from an eNB [2].

* **Option 3: Specify the minimum activation time in stage 2.**

The NG-RAN node should keep the re-activated cell in active state for a certain time by implementation to avoid ping-pong effect and to wait UEs in the eNB to complete measurement towards the re-activated cell [4].

**Question 1: Which option do you prefer to handle the minimum activation time?**

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| Company | Comment |
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# Conclusion, Recommendations [if needed]

If needed

# References

1. R3-212468 Discussion on inter-system inter-RAT energy saving, CMCC.
2. R3-212011 (TP for SON BL CR for TS 38.300): Minimum activation time for energy saving), Huawei.
3. R3-212141 Discussion on minimum activation time, ZTE.
4. R3-212328 (TP for BLCR to TS 38.300): Description of minimum activation time, Nokia.