3GPP TSG-RAN WG2 #113-e Tdoc DocNumber

Electronic meeting, January 25th – February 5th 2021

Agenda Item: 8.13.2.1

Source: Ericsson

Title: [AT113-e][887][NR/R17 SON/MDT]  Indication of candidate target cell (Ericsson)

Document for: Discussion, Decision

# 1 Introduction

This document captures the outcome of this email discussion:

* [AT113-e][887][NR/R17 SON/MDT]  Indication of candidate target cell (Ericsson)

- Based on the agreements that “In the RLF report for CHO, the UE includes of the latest radio measurement results. FFS: to indicate whether or not it is candidate target cell.”.

- Figure out the necessity of introducing the indication.

Intended outcome: Agreeable WF

Deadline: Thursday 04/02/2021

Companies inputs to this email discussion are appreciated by the 4th February 2021 1200 UTC.

Related to this topic, the following agreements has been reached in RAN2#113-e:

Agreements:

1 Include in the RLF report the “Time elapsed since CHO execution until connection failure”. How to convey this information is FFS. (email discussion 886, Qualcomm)

2 Reuse the following legacy timers in the RLF report also for CHO: timeUntilReconnection, timeSinceFailure.

3 In the RLF report for CHO, the UE includes of the latest radio measurement results. FFS: to indicate whether or not it is candidate target cell. (email discussion 887, Ericsson)

The objective of this email discussion is to clarify the following FFS: “to indicate whether or not it is candidate target cell”.

# 2 Discussion

In the email discussion [Post112-e][853][NR R17 SON/MDT] R17 Information needed in UE report for CHO cases (Ericsson) available in R2-2101451 (section 2.2 and section 2.3), majority of companies believed that it is beneficial to include the latest radio measurement results of the candidate target cells in the RLF-report. Hence the following question is asked:

**Q1: Do you see beneficial to include the latest radio measurement results of the candidate target cells in the RLF-report? Please provide also your explanation.**

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| **Company** | **Yes/No** | **Comments** |
| **Qualcomm** | Neighboring cell measurements should be sufficient. If target cell are best neighboring cell they will be reported by the UE in the neighboring cell measurements | We believe that latest radio measurements of the candidate target cell can be part of the neighboring cell measurements. Furthermore, prioratizations of the candidate cell may not be needed, the network can use the configuration sent and obtained measurement to determine the radio measurements of the candidate target cells. Moreover, in our understanding, the network might be more be interested in knowing which cells are the best cells irrespective of whether they are part of candidate target cell list or not. |
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The next question is on whether RAN2 sees beneficial to include indication of whether a cell measurement result included in the RLF-report is associated to a CHO candidate target cell or not.

Rapporteur notes that the answer to this question is strictly related to whether the source cell can keep the UE context for long time, i.e. at least until the RLF-report is sent, so that the network can retrieve the cell identities of the configured target cells and match them with the radio measurement results included in the RLF-report.

**Q2: Do you see beneficial to include an indication indicating whether a neighbor cell, included as part of neighbor cell measurement result, is associated to a CHO candidate target cell or not? Please provide your explanation**

* **Option 1: Yes**
* **Option 2: No**
* **Option 3: Wait for RAN3 to confirm whether the source cell can keep the UE context, at least up to the point the RLF-report is received by the source cell**

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| **Company** | **Preferred Option** | **Comments** |
| **Qualcomm** | Option 3 | Wait for RAN3. |
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# 3 Conclusion

To be updated