3GPP TSG-RAN WG2 #116bis-e R2-220xxxx

Electronic meeting, Jan 17st - 25th, 2022

Agenda Item: 9.2.1

Source: Ericsson

Title: Report of [Post-116bis-e][088][IoT-NTN] 36304 open issues

Document for: Discussion, Decision

# Introduction

This document serves as a summary of the following offline discussions:

* [Post116bis-e][088][IoT NTN] 36304 (Ericsson)

Scope: Updated running CR taking into account agreements of R2-116bis-e. Best effort review. Endorsement if possible. Capture TS related Open Issues, not captured elsewhere and suggest how to treat.

Intended outcome: Updated Running CR, reviewed, baseline for next meeting. TS related Open issue with suggestion how to treat.

Deadline: Short.

This e-mail discussion serves to treat how the open issues related to idle mode CR should be treated in the next meeting according to (and should not be a discussion on whether a feature should be introduced or not):

* **Each open issue** should be associated with **suggested treatment/handling**.
  1. **Company input into Pre117-e-offline (i.e. no company tdocs)**
  2. Company tdocs invited.
  3. CR rapporteur handled issue (CR rapporteur will propose resolution as input to next meeting).
  4. Other, e.g. immature area, reference to dependency, unclear status etc.

# Contact info

|  |  |  |
| --- | --- | --- |
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| Huawei, HiSilicon | Odile Rollinger | odile.rollinger@huawei.com |
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# Discussion

## Open CR issues

In the CR the following is captured regarding t-service for LTE-M:

Editor’s Note: FFS whether *t-Service* applies to higher priority frequencies.

It was brought up during online discussions in RAN2#116-e, but it was not addressed by any contribution in RAN2#116bis-e. We think that this can be addressed in Pre117-e-offline as it is mainly for companies to check whether it should apply or not.

**Open issue: FFS whether t-Service applies to higher priority frequencies.**

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| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| OPPO | No | We can refer to the agreement made for NR NTN in this meeting.  For quasi-earth fixed cell, eMTC UE shall perform neighbour cell measurements of higher priority E-UTRAN inter-frequency or inter-RAT frequencies regardless of the remaining serving time. |
| Huawei, HiSilicon | Yes |  |
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## Open issues related to editors notes

Regarding discontinuous coverage the following is captured:

Editor’s Note: *Agreement*: It is FFS to what extent it need to be specified the details of UE’s prediction of discontinuous coverage and its ability to detect when it is back in coverage.

Editor’s Note: *Agreement*: The details of UEs actions when predicted to be out of coverage is FFS, e.g stopping unnecessary cell search in the idle mode, and FFS to what extent this need to be specified.

There were several contributions for RAN2#116bis-e that discussed possible needed solutions for discontinuous coverage, but since it was not discussed and the proposals are varying, we think it is sufficient to invite company tdocs for next meeting.

**Open issue: Any needed specified behaviour in idle mode for discontinuous coverage.**

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| OPPO | Yes | In our understanding, it is up to UE implementation to predict the satellite’s coverage based on UE’s GNSS capability and the satellite assistance information.  And when UE detects out of coverage using discontinuous coverage information, UE may stop cell search in Any Cell Selection state. |
| Huawei, HiSilicon | Yes | We think it could be handled in **Pre117-e-offline.** Aspects to discuss are cell search and handling of AS timers during out-of-coverage |
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## Other open issues

Please indicate any other open issues related to idle mode CR (that cannot be resolved through comments on the running CR):

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

1. For idle mode open issues we have the following issues: …

# Conclusion

We propose the following:

Proposal 1 Send … .

# Reference