**3GPP TSG RAN WG2 #124 *R2-23xxxxx***

**Chicago, USA, 13 – 17 Nov, 2023**

**Source:** Nokia

**Title:** Report of  [Post123bis][304][IoT-NTN Enh] 36.304 running CR (Nokia)

**Agenda Item:** 7.6.1

**Document for:** Discussion and decision

# Introduction

This document captures the outcome of the following email discussion:

**[Post123bis][304][IoT-NTN Enh] 36.304 running CR (Nokia).**

This e-mail discussion aims to endorse the running CR and any pending issues and related proposals for agreement in RAN2-124.

For the running CR, companies can provide the comments directly to the initial version uploaded in the folder. The remaining open issues are discussed in this document for company views and conclusions.

1. Contact Information

To make it easier to find the contact delegate for potential follow-up questions, delegates are encouraged to provide their contact information in the following table:

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| **Company** | **Name** | **Email** |
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# Editor Notes and FFS

**RSS Feature applicability for IoT-NTN cell reselection measurement triggering**

Based on the comments received in earlier version of running CR following EN is maintained in the running CR until now. In Rapporteur understanding, RSS based measurements is UE capability and optional feature for terrestrial IoT. This feature is also applicable for IoT-NTN with difference that UE can indicate the capability for the same for IoT-NTN specific capability. IoT-NTN network can also enable in its network if NW wants to reduce the time taken for network synchronisation using RSS. There was no explicit agreement about disabling or non applicability of this feature for IoT-NTN.

If NW only transmit RSS and UE is capable of RSS measurements the serving cell condition check will be only based on receive level and quality measurements are not applicable. This behaviour is also applicable for IoT-NTN as exception on this behaviour is not agreed for IoT-NTN. Hence we propose to remove this EN

Editor Note: FFS whether RSS-based measurement condition check is applicable for IoT-NTN.

**Q1: Can the EN related to modified UE behaviour for RSS-based measurements be removed ? Companies can indicate their answer and additional comments here.**

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| **Company** | **Answer** | **Further comments** |
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New System Information Block SIBXX is introduced in Rel-18 to provide additional ephemeris-related information that can be used by UE during cell selection for fast acquisition and measurements of target cells. In rapporteur understanding, usage of the additional information in SIBXX is meant to have improved cell reselection time and only impacts RAN4 requirements. TS36.304 specifies the usage of parameters that impact the cell reselection algorithm only. If there is an impact to cell-reselection procedure due to SIBXX those can be captured.

**Q2: Do companies see impact to cell-reselection procedure in IDLE mode due to additional parameters of SIBXX ? If yes indicate the same here.**

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| **Company** | **Answer** | **Further comments** |
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# Other open issues.

* Idle mode procedure impacts for discontinuous coverage enhancements: RAN2 has already sent LS to SA2 on the discontinuous coverage enhancement solution defined in SA2 and any additional impacts for idle mode procedures to be considered in AS. For this issue RAN2 can await for SA2 LS Response for further action.
* In RAN2-123bis, RAN2 concluded to include frequency information in SIB32 to improve the cell selection on return in in-coverage. This feature can be captured in stage-2 specification without specific changes to 36.304.

**Q3: Do company agree to the way forward proposed for above open issues related to idle mode procedures and impacts to 36.304 ?**

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| --- | --- | --- |
| **Company** | **Answer** | **Further comments** |
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**Q4: Also indicate any other open issue to be handled in next meeting related to idle mode procedures related to mobility enhancements and DC enhancements features.**

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| **Company** | **Answer** | **Further comments** |
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# Conclusion

To be completed