3GPP TSG-RAN WG2 Meeting #121-bis-e R2-23xxxxx

Online, April 17th – 26th, 2023

**Agenda item: 5.2.1**

**Source: Ericsson**

**Title: [AT121bis-e][409][POS] LS to RTCM (Ericsson)**

**WID/SID: NR\_pos-Core**

**Document for: Discussion and Agreement**

# 1 Introduction

This document kicks off the following offline discussion:

* [AT121bis-e][409][POS] LS to RTCM (Ericsson)

      Scope: Review the draft LS in R2-2304044 in light of the email discussion report in R2-2304045 and develop an approvable version.

      Intended outcome: Report and approved LS (without CB if possible)

      Deadline: Monday 2023-04-24 2359 UTC

# 2 Contact Information

Respondents to the offline discussion are kindly asked to fill in the following table.

|  |  |
| --- | --- |
| Company | Contact: Name (E-mail) |
| CATT | Jianxiang Li (lijianxiang@catt.cn) |
| Intel | Yi.guo@intel.com |
| Huawei, HiSilicon | yinghaoguo@huawei.com |
| Swift Navigation | grant@swiftnav.com |
| Nokia | mani.thyagarajan@nokia.com |
| Apple | Sasha Sirotkin <ssirotkin@apple.com> |
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# 3 References

1. [R2-2304044](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_121bis-e/Docs/R2-2304044.zip) LS on SSR orbit and clock correction reference for BDS in 3GPP LPP
2. [R2-2304045](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_121bis-e/Docs/R2-2304045.zip) Report from [Post121][401][POS] LS to RTCM on SSR orbit and clock correction reference for BDS (Ericsson)

# Discussion

The RAN2#121 post meeting email discussion [2] converged to what is believed to be an agreeable LS to RTCM SC 104 [1] seeking their input on BDS SSR clock and orbit reference in assistance data.

**Q1: Do you agree to the draft LS in [1]? Any comments?**

|  |  |  |
| --- | --- | --- |
| Company |  Yes/No | Comments |
| CATT | Yes | For information, BDS-3 in China already broadcasts the SSR corrections based on ephemeris types of B1C via signal PPP-2b. |
| Intel | Yes |  |
| Huawei, HiSilicon | Yes |  |
| Swift Navigation | Yes |  |
| Nokia | Yes |  |
| Apple | Yes | Are we asking for comments or an answer in the LS?  |
|  |  |  |

**Rapporteur comment: There is consensus from all participating companies that the draft LS in [1] is agreeable.**

**Proposal 1 Agree to the LS to RTCM [1]**

# 5 Conclusion

Based on the consensus of the discussion, we have the following proposal.

**Proposal 1 Agree to the LS to RTCM [1]**

# Annex LS to RTCM SC 104 [1]

**3GPP TSG RAN WG2#121-bis-e R2-2304044**

**Online,17th – 26th April, 2023**

**Title: LS on SSR orbit and clock correction reference for BDS in 3GPP LPP**

**Release:** Release 16

**Work Item:** NR\_pos-Core

**Source:** 3GPP RAN2

**To:** RTCM SC 104

**Cc:**

**Contact Person:**

**Name:** Fredrik Gunnarsson

**Email address:** fredrik.gunnarsson@ericsson.com

**Attachments: -**

**1. Overall Description:**

3GPP RAN2 discusses suitable SSR orbit and clock corrections reference for BDS

3GPP RAN2 respectfully asks

* which broadcast ephemeris RTCM intends to use for the BDS SSR orbit/clock corrections, considering the ephemeris types associated with B1I/B3I and B1C/B2a?

**2. Actions:**

**To RTCM SC 104:**

3GPP RAN2 respectfully asks RTCM SC 104 to provide comments to the question above.

**3. Date of Next TSG-RAN2 Meetings:**

RAN WG2 Meeting #122 May 22 – May 26, 2023 Incheon, KR

RAN WG2 Meeting #123 Aug 21 – Aug 25, 2023 Toulouse, FR