3GPP TSG-RAN WG2 #119-e R2-22xxxxx

Online Meeting, Aug 17th – 29th, 2022

Agenda Item: 6.11.1

Source: Ericsson

Title: [AT119-e][419][POS] LS from RTCM (Ericsson)

Document for: Discussion, Decision

# Introduction

This document is to gather input for below email discussion.

* [AT119-e][419][POS] LS from RTCM (Ericsson)

Scope: Discuss the LS in R2-2206903 and determine what next steps are desirable from the positioning session point of view, targeting a future discussion with organisational leadership to determine the formal process if necessary.

Intended outcome: Report to CB session

Deadline: Tuesday 2022-08-23 1200 UTC

The below LS was provided by RTCM

1. R2-2206903 Response LS to RTCM SC134 on GNSS integrity (RTCM; contact: ESA) RTCM LS in

# Contact Information

|  |  |
| --- | --- |
| Company | Contact: Name (E-mail) |
| Swift Navigation | Grant Hausler (grant@swiftnav.com) |
| Apple | Sasha Sirotkin <ssirotkin@apple.com> |
| vivo | Xiang Pan (panxiang@vivo.com) |
| CATT | Jianxiang Li (lijianxiang@catt.cn) |
| Ericsson | Ritesh.shreevastav@ericsson.com |
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# Discussion

## Establishing Liaison with RTCM

RTCM asks RAN2 on procedure to liaise. However, before we proceed with the procedure, it is important to gather companies view on whether they would see the benefits of such liaison setup between 3GPP and RTCM.

***TO 3GPP***

***ACTION****: provide a reply about the intention to proceed with the agreement and the 3GPP Liaison form such an organization usually asks to sign to external entities asking to liaison with them*

From moderator point of view, there are benefits but it may not be essential. 3GPP has specified only Integrity for SSR message whereas integrity for OSR message is missing. This work is being done by RTCM as stated in the LS. Further, previously in Rel-15, 3GPP inherited/took the GNSS RTK AD from RTCM. Hence setting up liaison could be beneficial. On the other hand, once the RTCM is ready with their document, 3GPP can always refer and inherit the changes as done previously (assuming via TEI18), thus the liaison setup may not be essential.

Question 1: Companies are requested to provide their view.

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| --- | --- | --- |
| Company | Beneficial: (Yes/No) | Comments |
| Swift Navigation | Yes | It is beneficial, but no LS activities are necessary for R17 which has concluded. We see benefit having an ongoing liaison to discuss and share information on the integrity work. |
| Huawei, HiSilicon | Yes |  |
| vivo | Yes | With the liaison, we can update our info and spec in time. |
| ZTE | Yes |  |
| CATT |  | Basically, we agree with moderator that there are benefits but seems not essential. Liaison can be used if one organization think it is needed. |
| Ericsson | Yes |  |
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## How to setup Liaison

If RAN2 see the need to setup liaison, we can request the 3GPP liaison coordinator to facilitate such.

Question 2: Do companies understand that if we want to do this, it should start with the liaison coordinator?

* Option 1: yes, ok to liaise with RTCM and start with liaison coordinator
* Option 2: yes, ok to liaise with RTCM but do not see this is correct approach; i.e do not agree to start with liaison coordinator
* Option 3: No need to liaise with RTCM; though the approach to start with the liaison coordinator is correct
* Option 4: No need to liaise with RTCM and the approach is incorrect.

Companies are requested to Select one of the Options.

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| --- | --- | --- |
| Company | Option 1,2,3,4 | Comments |
| Swift Navigation | Option 1 |  |
| Apple |  | This is not a WG-level discussion, it should happen in TSG or even above. |
| Huawei,hiSilicon |  | Same view as Apple |
| vivo |  | Same view as Apple |
| ZTE |  | Same view as Apple |
| CATT | Option 1 | But we agree that the coordinator is TSG level not WG level. |
| Ericsson | Option 1 |  |
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## Liaison with RTCM

If liaison coordinator can facilitate the liaison and as RTCM is interested in providing their input; should RAN2 not anyway setup the liaison; i.e why should RAN2 forbid?

Question 3: Do companies agree that irrespective of the benefit seen; i.e irrespective of the outcome of 3.1; liaise with RTCM should be done so it is easier for RTCM to reach to us?

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| --- | --- | --- |
| Company | Yes/No | Comments |
| Swift Navigation | Yes | Even if RAN2 does not want to initiate a LS then we should leave the door open to having RTCM initiate an LS with 3GPP |
| Huawei, HiSilicon | Yes |  |
| vivo | Yes |  |
| ZTE | Yes |  |
| CATT | Yes | Agree with Swift. |
| Ericsson | Yes |  |
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# Conclusion

* RAN2 agrees liaison with RTCM should be established.
* RAN2 WG is not the group responsible to do such. It should be done or discussed at TSG RAN

Based on the discussion in section 3 we propose the following:

1. RAN2 to liaise with RTCM.
2. The procedure to setup the liaison with RTCM is outside of RAN2 domain.

# References

[1] AI 6.11.1