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

**Electronic, 17th – 26th Aug. 2022**

**Agenda item:** 8.6.2

**Source:** MediaTek

**Title:** Report of [AT119-e][ IoT-NTN] LS to RAN1 (Mediatek)

**Document for:**  Discussion and decision

# Introduction

This report summarizes the email discussion below that took place during RAN2#119-e meeting:

* [AT119-e][119][IoT-NTN] LS to RAN1 (Mediatek)

Initial scope: Discuss whether to send an LS to RAN1 to inform of the RAN2 decision for eMTC (on enabling/disabling HARQ feedback via UE specific RRC signalling), saying that we are still discussing for NB-IoT, and checking if they have any concern with using RRC (in which case we can reconsider)

Initial intended outcome: LS to RAN1.:

Initial deadline (for companies' feedback): Thursday 2022-08-25 1800 UTC

Initial deadline (for rapporteur's summary): Friday 2022-08-26 1000 UTC

# Reference

[1] R2-22078701 Report from Break-out session on NR-NTN, IoT-NTN, REDCAP and CE

# Contact information

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# Discussion

In R18, IoT-NTN operation is extended to include User Plane Enhancements, containing signalling details for selectively enabling/disabling HARQ feedback in individual HARQ processes to mitigate impact of HARQ stalling on UE data rates. During RAN2 119-e the following agreements are made:

Agreements:

1. Disabling DL HARQ feedback is supported for NB-IoT and eMTC NTN. FFS on UE capability
2. For UL HARQ operation, introduce two HARQ modes, i.e., HARQ mode A and HARQ mode B in IoT NTN (both NB-IoT and eMTC NTN), similarly to NR NTN
3. From RAN2 perspective, at least for eMTC, enabling/disabling HARQ feedback can be configured per DL HARQ process at least via UE specific RRC signalling. FFS for NB-IoT (and especially for CP solution for NB-IOT).

Based on the above discussions it was agreed to discuss whether there is a need to send an LS to RAN1 to inform of the RAN2 decision for eMTC (on enabling/disabling HARQ feedback via UE specific RRC signalling), saying that RAN2 is still discussing for NB-IoT, and checking if RAN1 have any concern with using RRC (in which case we can reconsider). Hence, the rapporteur would like to raise the following question:

**Question 1: Do the companies think that RAN2 should send an LS informing RAN1 about RAN2’s decision mentioned above (i.e., enabling/disabling HARQ feedback via UE specific RRC signaling for eMTC-based NTN and further mentioning that RAN2 is still discussing for NB-IoT and checking if RAN1 have any concern with it)?**

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| **Company** | **Yes/No** | **Additional comments** |
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**Question 2: If the answer to Question 1 is “yes”, companies are requested to check the draft LS uploaded in the same folder and inform if they are okay with the draft or provide their comments/edits in the draft LS.**

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| **Company** | **Yes/No** | **Additional comments** |
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# Conclusion

<To be updated based on inputs from different companies>