3GPP TSG-RAN WG1 Meeting #102-e R1- 20xxxxx

e-Meeting, August 17th – 28th, 2020

Agenda Item: 6.2.1

Source: Moderator (Ericsson)

Title: FL summary #1 for Multi-TB early termination aspects for LTE-MTC

Document for: Discussion, Decision

# 1 Introduction

This document provides a summary of the following RAN1 email discussion.

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| * [102-e-LTE-eMTC5-03] Email discussion #3: Multi-TB early termination aspects – Johan (Ericsson)
	+ Alternative #1: Proposals and TPs in [R1-2005470](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2005470.zip) section 2.1
	+ Alternative #2: Proposals and TPs in [R1-2006188](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2006188.zip) sections 3 and 4
	+ Alternative #3: Proposal and TP in [R1-2006471](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2006471.zip) issue #1
	+ Other alternatives are not precluded.
	+ Discussions/Agreements by 8/21, TPs by 8/28
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# 2 Discussion

According to contributions [1][2][3], some corrections of the specifications for the Rel-16 LTE-MTC feature for UL multi-TB scheduling with early termination of UL transmission, and the contributions present 3 different alternative solutions:

* **Alternative #1: Individual TB feedback**
	+ According to this alternative, individual TB feedback for early termination should be adopted.
	+ Background and TPs for 36.212 and 36.213 are provided in [R1-2005470](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2005470.zip) section 2.1.
* **Alternative #2: Explicit or implicit TB feedback applies to all TBs**
	+ According to this alternative, the TB feedback is explicit or implicit and applies to all TBs.
	+ Background and TPs for 36.213 are provided in [R1-2006188](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2006188.zip) sections 3 and 4.
* **Alternative #3: Explicit TB feedback applies to all TBs**
	+ According to this alternative, the TB feedback is explicit and applies to all TBs.
	+ Background and TPs for 36.213 are provided in [R1-2006471](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2006471.zip) issue #1.

Companies are invited to provide their comments on the alternatives. Other alternatives than the ones listed above are not precluded.

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| **Company** | **Comments** |
| Lenovo&Moto | We prefer Alternative#1. Individual TB feedback can save more power in most cases, especially in interleave scenarios. We don’t think there is benefit of early termination if number of TB is equal to 8 and one TB feedback to all TBs. |
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# References

1. [R1-2005470](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2005470.zip), “Remaining issues on scheduling enhancement for MTC”, ZTE

1. [R1-2006188](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2006188.zip), “Maintenance on multi-TB scheduling”, Qualcomm Incorporated

1. [R1-2006471](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2006471.zip), “Multi-TB maintenance issues for LTE-MTC”, Ericsson