3GPP TSG-RAN WG2 #109e R2-20xxxxx

**Online, 24 February-6 March 2020**

Agenda Item: 6.5.1

Source: MediaTek Inc.

**Title: Summary of [AT109e][101][RACS] Stage 2 CRs (MediaTek)**

Document for: Discussion, Decision

# 1 Introduction

This document comprises the contents of the following email discussion:

* [AT109e][101][RACS] Stage 2 CRs (Mediatek)

Intended outcome: Agreed 36.300 and 38.330 CRs, also taking into account proposals in [R2-2000939](file:///C:\Data\3GPP\Extracts\R2-2000939%20-%20Generic%20stage-2%20description%20for%20RRC%20segmentation.docx)

Deadline: Friday 2020-02-28 12:00 CET

Status: Started

The rapporteur requests that comments to this document be made available **24h before the deadline** (i.e. Thursday 2020-02-27 12:00 CET) to allow time for editing the CRs.

# 2 Discussion

## 2.1 Generic description of segmentation

It is proposed in [1] to migrate the description of uplink segmentation into the TEI16 CRs for downlink segmentation, thus introducing a single generic description covering segmentation in both directions.

**Question** 1**: Companies are requested to provide their views on merging into a generic stage 2 description of RRC segmentation, and if done, how it should be handled.**

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| **Company** | **Comments** |
| **CATT** | Since the UL segmentation is part of this WI, it is better to capture segmentation in the stage 2 CR in this WI. It also can capture DL part in the same CR to avoid extra description and clashing.  So we propose to have general description in stage 2 RACS CR. |
| **Nokia** | Generic description is fine. |
| **Apple** | Agree with CATT proposal to have a generic description in the stage 2 RACS CR. |
| **Huawei** | Agree to have generic stage 2 description of RRC segmentation. |
| **Lenovo** | Regarding the generic description for RRC segmentation we prefer to take the TEI16 CRs as baseline. |
| **MediaTek** | We agree it would be good to have a generic description. We need to decide whether to take that description in the RACS or DL segmentation CRs—we are OK with CATT’s proposal to capture it in the RACS CRs where most of the description is already present. |

## 2.2 Any other issues

Any additional comments on the stage 2 CRs in [2] and [3] are invited.

**Question** 2**: Companies are requested to provide any other comments on the RACS stage 2 CRs.**

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| **Company** | **Comments** |
| **Ericsson** | We have no further comments on top of for the above issue. Our views on the issue above should be clear as it is our contribution. |
| **Nokia** | 7.X Segmentation of RRC messages An RRC message may be segmented in case the size of the encoded RRC message PDU exceeds the maximum PDCP SDU size. Segmentation is performed in the RRC layer using a separate RRC PDU to carry each segment. The receiver reassembles the segments to form the complete RRC message. All segments of an RRC message are transmitted before sending another RRC message. Segmentation is supported in both uplink and downlink.  In this version of the specification, segmentation applies only to the *UECapabilityInformation*, *RRCReconfiguration* and *RRCResume* messages. |
| **Apple** | In section 7.x, for the sentence *“An RRC message sent may be segmented in case the size of the encoded RRC message PDU exceeds the maximum PDCP SDU size*” do we need the word “sent” ? This seems to be a remnant of the previous UL description and actually the segmentation is done before sending.  Instead the following description seems sufficient.  *“An RRC message may be segmented in case the size of the encoded RRC message PDU exceeds the maximum PDCP SDU size.”* |
| **MediaTek** | We assume “sent” is a cut-and-paste error left over from “sent by the UE”. The edits proposed by Nokia above seem reasonable. |

# 3 Conclusion

[To be populated]

# 4 References

[1] R2-2000939, “Generic stage-2 description for RRC segmentation”, Ericsson, RAN2#109e

[2] R2-2000421, “Introduction of RACS [36.300]”, MediaTek Inc., RAN2#109e

[3] R2-2000422, “Introduction of RACS [38.300]”, MediaTek Inc., RAN2#109e