**3GPP TSG-RAN WG2 Meeting #129 R2-2501396**

**Athens, Greece, 17 – 21 of February 2025**

**Title: Reply LS on QMC Coordination for RRC Segmentation in NR-DC**

**Response to:** **R2-2500022/R3-247888**

**Release: Release 18**

**Work Item: NR\_QoE\_enh-Core**

**Source: TSG RAN WG2**

**To: TSG RAN WG3**

**Cc:**

**Contact Person:**

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**Attachments:** -

**1. Overall Description:**

RAN2 thanks RAN3 for the LS. After discussion, below are RAN2 responses to Questions 1-4:

* **Question 1:** Can the UE receive an *AppLayerMeasConfig-r17* IE for MCG configuration containing *rrc-SegAllowedSRB5-r18* parameter?

**Question 2:** Can the UE receive an *AppLayerMeasConfig-r17* IE for SCG configuration containing *rrc-SegAllowedSRB4-r17* parameter?

**RAN2 response to Q1/2:** It is specified in the field descriptions as below that *rrc-SegAllowedSRB4-r17* is only configured for an MCG and *rrc-SegAllowedSRB5-r18* is only configured for an SCG.

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| ***rrc-SegAllowedSRB4***This field indicates that RRC segmentation of *MeasurementReportAppLayer* is enabled on SRB4. The field is only configured for an MCG. It may be present only if the UE supports RRC segmentation of the *MeasurementReportAppLayer* message***.*** |
| ***rrc-SegAllowedSRB5***This field indicates that RRC segmentation of *MeasurementReportAppLayer* is enabled on SRB5. The field is only configured for an SCG. It may be present only if the UE supports RRC segmentation of the *MeasurementReportAppLayer* message***.*** |

Based on it, there are two different understandings in RAN2:

* Understanding 1: *rrc-SegAllowedSRB4-r17* is only used for an MCG, and *rrc-SegAllowedSRB5-r18* is only used for SCG. But there is no restriction that MN should not include *rrc-SegAllowedSRB5-r18* in *AppLayerMeasConfig-r17* or SN should not include *rrc-SegAllowedSRB4-r17* in *AppLayerMeasConfig-r17*. In order words, UE can receive both *rrc-SegAllowedSRB4-r17* and *rrc-SegAllowedSRB5-r18* in a common *AppLayerMeasConfig-r17* from any node.
* Understanding 2: *rrc-SegAllowedSRB4-r17* is only configured in an MCG configuration and *rrc-SegAllowedSRB5-r18* is only configured in an SCG configuration.
* **Question 3:** If the UE receives from the MN the *AppLayerMeasConfig-r17* IE which does not include the *rrc-SegAllowedSRB5-r18* parameter, how does the UE treat its RRC segmentation state for SRB5 after receiving this *AppLayerMeasConfig-r17* parameter? Does the UE keep its previous RRC segmentation state for SRB5 or does the UE consider that the RRC segmentation function for SRB5 shall be disabled?

**Question 4:** If the UE receives from the SN the *AppLayerMeasConfig-r17* parameter which does not include the *rrc-SegAllowedSRB4-r17* parameter, how does the UE treat its RRC segmentation state for SRB4 after receiving this *AppLayerMeasConfig-r17* parameter? Does the UE keep its previous RRC segmentation state for SRB4 or does the UE consider that the RRC segmentation function for SRB4 shall be disabled?

**RAN2 response to Q3/4:** According to current ASN.1 design, *rrc-SegAllowedSRB4-r17* and *rrc-SegAllowedSRB5-r18* are optional fields with need code Need R*.* Based on it, there are two different understandings of UE behaviors in RAN2:

* Understanding 1: If the UE receives from the MN the *AppLayerMeasConfig-r17* IE which does not include the *rrc-SegAllowedSRB5-r18* parameter, UE considers the RRC segmentation function for SRB5 is disabled. If the UE receives from the SN the *AppLayerMeasConfig-r17* parameter which does not include the *rrc-SegAllowedSRB4-r17* parameter, UE considers the RRC segmentation function for SRB4 is disabled.
* Understanding 2: *rrc-SegAllowedSRB4-r17* cannot be included in a configuration for an SCG and absence of the field in an SCG configuration means no action by the UE as the field cannot be present. Similarly, *rrc-SegAllowedSRB5-r18* cannot be included in a configuration for an MCG and absence of the field in an MCG configuration means no action for the UE as the field cannot be present.

RAN2 has discussed whether to change the current design on *rrc-SegAllowedSRB4-r17* and *rrc-SegAllowedSRB5-r18* and it was not agreed as it would lead to non-backward compatible changes in RAN2 specifications. Therefore RAN2 reached below agreement:

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| * We do not correct this in RAN2 and let RAN3 make corrections
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**2. Actions:**

**To RAN WG3:**

RAN2 respectfully asks RAN3 to take the aforementioned RAN2 decisions into account in their future work.

**3. Date of Next TSG-RAN WG2 Meetings:**

RAN2#129-bis from 2025-04-07 to 2025-04-11 Wuhan, CN

RAN2#130 from 2025-05-19 to 2025-05-23 Malta, MT