**3GPP TSG-RAN2 Meeting #125 R2-2401985**

**Athens, Greece, February 26th – March 1st, 2024**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **38.323** | **CR** | **0133** | **rev** | **-** | **Current version:** | **18.0.0** |  |
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| *For* [***HELP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network |  |

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| ***Title:***  | Data volume calculation for DSR when associated with at least two RLC entities |
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| ***Source to WG:*** | LG Electronics Inc. (Rapporteur) |
| ***Source to TSG:*** | RAN2 |
|  |  |
| ***Work item code:*** | NR\_XR\_enh-Core |  | ***Date:*** | 2024-03-01 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | Data volume calculation for DSR is missing for split bearer and duplicated bearer. |
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| ***Summary of change:*** | Data volume calculation for DSR is added for split bearer and duplicated bearer. |
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| ***Consequences if not approved:*** | Split bearer and duplicated bearer cannot support delay status reporting. |
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| ***Clauses affected:*** | 5.15 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ... |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

====================================CHANGE BEGIN====================================

## 5.15 Data volume calculation for delay status reporting

For the purpose of MAC delay status reporting, the transmitting PDCP entity shall consider the following as delay-critical PDCP data volume:

- the delay-critical PDCP SDUs for which no PDCP Data PDUs have been constructed;

- the PDCP Data PDUs that contain the delay-critical PDCP SDUs and have not been submitted to lower layers;

- the PDCP Control PDUs;

- for AM DRBs, the PDCP SDUs to be retransmitted according to clause 5.1.2 and clause 5.13;

- for AM DRBs, the PDCP Data PDUs to be retransmitted according to clause 5.5.

If a PDCP SDU becomes a delay-critical PDCP SDU, and if the corresponding PDCP Data PDU has already been submitted to lower layers, the delay-critical indication for the PDCP Data PDU is provided to lower layers.

If the transmitting PDCP entity is associated with at least two RLC entities, when indicating the delay-critical PDCP data volume to a MAC entity for DSR triggering and Buffer Size calculation (as specified in TS 38.321 [4]), the transmitting PDCP entity shall:

- if the PDCP duplication is activated for the RB:

- indicate the delay-critical PDCP data volume to the MAC entity associated with the primary RLC entity;

- indicate the delay-critical PDCP data volume excluding the PDCP Control PDU to the MAC entity associated with the RLC entity other than the primary RLC entity activated for PDCP duplication;

- indicate the delay-critical PDCP data volume as 0 to the MAC entity associated with RLC entity deactivated for PDCP duplication;

- else (i.e. the PDCP duplication is deactivated for the RB):

- if the split secondary RLC entity is configured; and

- if the total amount of PDCP data volume and RLC data volume pending for initial transmission (as specified in TS 38.322 [5]) in the primary RLC entity and the split secondary RLC entity is equal to or larger than *ul-DataSplitThreshold*:

- indicate the delay-critical PDCP data volume to both the MAC entity associated with the primary RLC entity and the MAC entity associated with the split secondary RLC entity;

- indicate the delay-critical PDCP data volume as 0 to the MAC entity associated with RLC entity other than the primary RLC entity and the split secondary RLC entity;

- else:

- indicate the delay-critical PDCP data volume to the MAC entity associated with the primary RLC entity;

- indicate the delay-critical PDCP data volume as 0 to the MAC entity associated with the RLC entity other than the primary RLC entity.

====================================CHANGE STOP====================================