**3GPP TSG-SA5 Meeting #162 *S5-253974***

**Stor-Göteborg, Sweden, 25th Aug 2025 - 29th Aug 2025**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **28.558** | **CR** | **0041** | **rev** | **1** | **Current version:** | **19.4.0** |  |
|  |
| *For* [***HE******LP***](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 |  | Radio Access Network | **X** | Core Network |  |

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|  |
| ***Title:***  | Rel-19 CR TS28.558 Fix Measurement Object Class description for UL PDCP SDU Loss Rate |
|  |  |
| ***Source to WG:*** | ZTE Corporation |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | PM\_KPI\_5G\_Ph3 |  | ***Date:*** | 2025-08-10 |
|  |  |  |  |  |
| ***Category:*** | **A** |  | ***Release:*** | Rel-19 |
|  | *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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | Fix applicable scenarios |
|  |  |
| ***Summary of change:*** | Fix f) description causes confusing (GNBCUUPFunction can only be applicable to 3-split scenario), so delete the description to avoid confusion  |
|  |  |
| ***Consequences if not approved:*** | Scenario is not accurate |
|  |  |
| ***Clauses affected:*** | 6.3.1.3.1 |
|  |  |
|  | **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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

\*\*\* START OF CHANGE 1 \*\*\*

##### 6.3.1.3.1 UL PDCP SDU Loss Rate

a) This measurement provides the fraction of PDCP SDU packets which are not successfully received at gNB-CU-UP. It is a measure of the UL packet loss including any packet losses in the air interface, in the gNB-CU and on the F1-U interface. Only user-plane traffic (DTCH) and only PDCP SDUs that have entered PDCP (and given a PDCP sequence number) are considered. The measurement is optionally split into subcounters per QoS level (mapped 5QI or QCI in EN-DC architecture [16]), and subcounters per supported S-NSSAI. This measurement is also referred to as UL M7 in TS 37.320 [9].

b) SI

c) This measurement is obtained as: 1,000,000\* Number of missing UL PDCP sequence numbers, representing packets that are not delivered to higher layers, of a data radio bearer, divided by Total number of UL PDCP sequence numbers (also including missing sequence numbers) of a bearer, starting from the sequence number of the first packet delivered by UE PDCP to gNB-CU-UP until the sequence number of the last packet. If transmission of a packet might continue in another cell, it shall not be included in this count. Separate counters are optionally maintained for mapped 5QI (or QCI for EN-DC architecture [16]) and per supported S-NSSAI.

d) Each measurement is an integer value representing the loss rate multiplied by 1E6. The number of measurements is equal to one. If the optional QoS and S-NSSAI level measurements are performed, the measurements are equal to the number of mapped 5QIs and the number of supported S-NSSAIs.

e) The measurement name has the form DRB.PacketLossRateUlUe, and optionally
DRB.PacketLossRateUlUe.*QoS* where *QoS* identifies the target quality of service class, and DRB.PacketLossRateUlUe.*SNSSAI* where *SNSSAI* identifies the S-NSSAI.

f) GNBCUUPFunction;

NRCellCU.

g) N/A

h) One usage of this measurement is to support ML training and performance evaluation.

\*\*\* END OF CHANGE 1 \*\*\*