**3GPP TSG-SA5 Meeting #137e *S5-213255rev1***

**electronic meeting, online, 10 - 19 May 2021** Revision of S5-20xxxx

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| *CR-Form-v11.4* |
| **CHANGE REQUEST** |
|  |
|  | **32.255** | **CR** | **0308** | **rev** | **1** | **Current version:** | **17.1.1** |  |
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| *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 |  | Core Network | **X** |

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| ***Title:***  | Remove the editor's note about the usage reporting |
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| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** |  5G\_URLLC |  | ***Date:*** | 2021-04-14 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-17 |
|  | *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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | As per TS 23.501 and TS 23.502, for the URLLC charging, the redundant transmission at transport layer is the redundancy of PDU sessions.and redundant transmission on the N3/N9 interface is the redundancy of QoS flows.The corresponding description should be added for each redundant transmission type. |
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| ***Summary of change:*** | Clarify the usage reporting of the redundant transmission at transport layer and N3/N9 interface.Remove the editor’s note. |
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| ***Consequences if not approved:*** | Can not support the URLLC service charging. |
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| ***Clauses affected:*** | 5.2.1.12 |
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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:*** |  |

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| **First change** |

#### 5.2.1.12 URLLC Charging

The CHF can be aware of redundant transmission type (i.e.dual connectivity, redundant transmission on N3/N9 and redundant transmission at transport layer) and provide the quota allocation based on the redundant transmission type:

* For dual connectivity based end to end redundant user plane paths, the granted quotas is allocated for each PDU session.
* For the redundant transmission on N3/N9 interfaces and at transport layer, the CHF grants the quota for the non-redundant transmission.

The SMF shall collect and report the usage for the redundant transmission as the following:

* For dual connectivity based end to end Redundant User Plane Paths, SMF shall collect and report the usage for each redundant PDU session.
* For redundant transmission on N3/N9 interface, the SMF shall collect and report the usage with redundant transmission indication to specify whether the usage is reported for duplication or elimination. During the PDU session life, if the redundant transmission change is active, when the SMF active or deactive the redundant transmission for URLLC QoS flow, SMF shall report the usage based on the trigger as specified in the clause 5.2.1.
* For redundant transmission at transport layer, the SMF shall collect and report the usage with redundant transmission indication to specify whether the usage is reported for duplication or elimination.

Editor’s note: the definition of "non-redundant transmission" is ffs

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| **End of change** |