**3GPP TSG-SA5 Meeting #135e *S5-211182***

**electronic meeting, online, 25 January - 3 February 2021** Revision of S5-20xxxx

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| *CR-Form-v11.4* | | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | | |
|  | | | | | | | | | |
|  | **32.255** | **CR** | **0277** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | | |
| *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 |  | Core Network | **X** |

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| ***Title:*** | Add the Usage Reporting for URLLC Charging | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5G\_URLLC | | | | |  | ***Date:*** | | | 2021-01-15 |
|  |  | | | |  | |  | | |  |
| ***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 can be 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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | As per TS 23.501 and TS 23.502, the 5GS to support Ultra Reliable Low Latency Communication (URLLC) is specified. The corresponding usage reporting mechanism should be added.  A new clause is introduced to describe the usage reporting and quota allocation. The editor’s note in the clause 5.1.14.2 and clause 5.1.14.4 should be removed. | | | | | | | | |
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| ***Summary of change:*** | | Remove the editor’s note in clause 5.1.14.2.  Void the usage reporting for URLLC in clause 5.1.14.4. | | | | | | | | |
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| ***Consequences if not approved:*** | | The highly reliable URLLC services charging is absent. | | | | | | | | |
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| ***Clauses affected:*** | | 5.1.14.2, 5.1.14.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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| **First change** |

#### 5.1.14.2 Support redundant transmission for high reliability communication

The SMF reports the redundant transmission type to the CHF to indicate which redundant transmission type is used for the PDU session or service data flow.

For dual connectivity based end to end Redundant User Plane Paths, the charging information is collected independently per each redundant PDU session. The quota is granted for each redundant PDU session independently. The SMF reports the usage per redundant PDU session.

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| **Next change** |

#### 5.1.14.4 Void

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| **End of change** |