**3GPP TSG-SA5 Meeting #131e *S5-203087***

**e-meeting 25th May-3rd June 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **28.552** | **CR** |  | **rev** | **1** | **Current version:** |  |  |
|  |
| *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:***  | Addition of QoS flow measurements for UPF |
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| ***Source to WG:*** | China Mobile,ZTE |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | 5G\_SLICE\_ePA |  | ***Date:*** | 2020-05-15 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-16 |
|  | *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:*** | For better monitoring, the addition of QoS flow measurements for UPF is necessary. |
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| ***Summary of change:*** | Add “Mean number of QoS flows” and “Maximum number of QoS flows” in clause 5.4. |
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| ***Consequences if not approved:*** | It is not good enough to monitor UPF without QoS flow measurements. |
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| ***Clauses affected:*** | 5.4.a (new) |
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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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| **1st Modified Section** |

### 5.4.a QoS flow related measurements

### 5.4.a.1 Mean number of QoS flows

a) This measurement provides the mean number of QoS flows of UPF.

b) SI

c) This measurement is obtained by sampling at a pre-defined interval, the number of QoS flows and then taking the arithmetic mean.The measurement is optionally split into subcounters per S-NSSAI and per DNN.

d) A single integer value

e) UPF.MeanQosFlows
UPF.MeanQosFlows.\_Ns
UPF.MeanQosFlows.\_Dnn

f) UPFFunction

g) Valid for packet switching

h) 5GS

### 5.4.a.2 Maximum number of QoS flows

a) This measurement provides the max number of QoS flows of UPF.

b) SI

c) This measurement is obtained by sampling at a pre-defined interval, the number of QoS flows and then selecting the maximum value. The measurement is optionally split into subcounters per S-NSSAI and per DNN.

d) A single integer value

e) UPF.MaxQosFlows
UPF.MaxQosFlows.\_Ns
UPF.MaxQosFlows.\_Dnn

f) UPFFunction

g) Valid for packet switching

h) 5GS

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| **End of Modified Sections** |