**3GPP TSG-SA5 Meeting #142-e *S5-222342***

**e-meeting, 4 - 12 April 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | 28.552 | **CR** | **Draft CR** | **rev** | 1 | **Current version:** | **17.6.0** |  |
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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 | **X** | Core Network |  |

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| ***Title:*** | Correct the definition of QoS flow setup related counters | | | | | | | | | |
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| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | SA5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | ePM\_KPI\_5G | | | | |  | ***Date:*** | | | 2022-03-23 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | When the UE has established the PDU SESSION, it will receive a parameter error caused by the core network carrying repeated PDU SESSION ID or the same Qos flow id. This is an exception in the occasional scenario of the core network and not a flow establishment failure caused by the wireless network. Therefore, it is necessary to exclude this scenario from the flow establishment request statistics, and add a special counter to count the establishment requests.  In the scenario where the UE PDU SESSION has been established, if the gNB receives an "PDUSESSION establishment request (PDU SESSION RESOURCE SETUP REQUEST) message from the AMF carrying incorrect core network parameters, it counts the number of flow establishment requests (core network parameter error), excluding the number of flow establishment requests. | | | | | | | | |
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| ***Summary of change:*** | | 1. Modify the definition of Number of QoS flow attempted to setup | | | | | | | | |
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| ***Consequences if not approved:*** | | The flow establishment failure caused by core network cannot be measured correctly. | | | | | | | | |
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| ***Clauses affected:*** | | 5.1.1.13.3.1 | | | | | | | | |
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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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| **First change** |

###### 5.1.1.13.3.1 Number of QoS flow attempted to setup

a) This measurement provides the number of QoS flows attempted to setup. The measurement is split into subcounters per QoS level (5QI).

b) CC.

c) On receipt by the NG-RAN of a PDU SESSION RESOURCE SETUP REQUEST message (the PDU SESSION RESOURCE SETUP REQUEST message that are received in the scenario where the UE PDU SESSION has been established are excluded), or receipt by the NG-RAN of a INITIAL CONTEXT SETUP REQUEST message, or receipt by the NG-RAN of a PDU SESSION RESOURCE MODIFY REQUEST message, each requested QoS flow in the message is added to the relevant measurement per QoS level (5QI) and per S-NSSAI, the possible 5QIs are included in TS 23.501 [4]. The sum of all supported per QoS level measurements shall equal the total number of QoS flows attempted to setup. In case only a subset of per QoS level measurements is supported, a sum subcounter will be provided first.

d) Each measurement is an integer value. The number of measurements is equal to the number of QoS levels plus the number of S-NSSAIs, plus a possible sum value identified by the *.sum* suffix.

e) The measurement name has the form.

QF. EstabAttNbr.*5QI* where *5QI* identifies the 5QI and

QF. EstabAttNbr.*SNSSAI* identifies the S-NSSAI.

f) NRCellCU.

g) Valid for packet switched traffic.

h) 5GS.

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| **Next change** |

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| **End of changes** |