**3GPP TSG-CT WG1 Meeting #130-eC1-21dddd**

**Electronic meeting, 20-28 May 2021C1-212986**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.193** | **CR** | **0037** | **rev** | **1** | **Current version:** | **17.0.1** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | PMFP message transport associated with QoS flow | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | ATSSS\_Ph2 | | | | |  | ***Date:*** | | | 2021-05-22 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In this release of specification, RTT measurement procedure and PLR measurement procedure can be performed per QoS flow.  In order to measure the RTT of specific QoS flows indicated by the SMF, PMFP ECHO REQUEST messages and PMFP ECHO RESPONSE messages are required to be transported over the specific QoS flows.  In order to measure the PLR of specific QoS flows indicated by the SMF, the UE and the UPF shall be able to recognize the user plane packets to which QoS flow when counting the packets. Unlike RTT, it is not mandatory for PMFP PLR COUNT REQUEST message, PMFP PLR COUNT RESPONSE message, PMFP PLR REPORT REQUEST message and PMFP PLR REPORT RESPONSE message to transported over the specific QoS flows. Because it works as long as the UE and the PMFP PLR messages can indicate the UE and the UPF which QoS flow to be counted.  Although the solution is not concluded, it proposes a new clause to specify PMFP messages mentioned above transport in associated QoS flows. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Create a new clause to sepcify PMFP message transport associated with QoS flow.  Leave two ENs for RTT and PLR cases respectively. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | A separate clause to specify PMFP message transport associated with QoS flow is missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.4.2.1.x (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS 23.501 CR 2721 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* 1st Change \* \* \* \*

##### 5.4.2.1.x PMFP message transport associated with QoS flow

In this release of specification, RTT measurement procedure and PLR measurement procedure can be performed per QoS flow.

In order to measure the RTT of specific QoS flows indicated by the SMF, PMFP ECHO REQUEST messages and PMFP ECHO RESPONSE messages are transported over the specific QoS flows.

Editor's note: It is FFS how to use the specific QoS flows to send PMFP ECHO REQUEST messages and PMFP ECHO RESPONSE messages.

Editor's note: For PLR measurement, it is FFS whether PMFP PLR COUNT REQUEST message, PMFP PLR COUNT RESPONSE message, PMFP PLR REPORT REQUEST message and PMFP PLR REPORT RESPONSE message are required to transported over the specific QoS flows. If not, how the PMFP PLR messages indicated the specific QoS flows is FFS.

\* \* \* End of Change \* \* \* \*