**SA WG2 Meeting #S2-143E S2-210xxxx**

**24 February - 9 March 2021, Electronic, Elbonia (revision of S2-210xxxx)**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.503** | **CR** | **<CR#>** | **rev** | **-** | **Current version:** | **16.7.0** |  |
|  | | | | | | | | |
| *For* ***HE******LP*** *on using this form: comprehensive instructions can be found at  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:*** | KI#2, 23.503\_IP PDU session impacts | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | SA WG2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | <Related\_WIs> | | | | |  | ***Date:*** | | | 2021-02-0x |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **<Cat>** |  | | | | | ***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. | | | | | | | | *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:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

*FIRST CHANGE*

*Next CHANGE*

#### 6.1.3.23a Support of TSC without IEEE TSN

Supporting TSC without IEE TSN is defined in TS 23.501 [2]. The NEF and PCF interact to perform QoS mapping as described in clause 5.28.4 of TS 23.501 [2].

The PCF provides the following parameters to the NEF:

- PDU session of UE information:

- UE-DS-TT Residence time;

- port number of DS-TT;

- UE/DS-TT address (i.e. MAC address of DS-TT for Ethernet PDU session, or IP address for IP PDU session).

- Port Management Information Container and the related port number.

- Bridge Management Information Container.

The NEF exposure the 5GS TSC capability as described in TS 23.501 [2] and TS 23.502 [3].

The NEF decides the TSC QoS information (i.e. priority, delay, maximum TSC Burst Size and Maximum Flow Bitrate) and TSC Assistance Container based on the received information from the AF as defined in clause 5.x of TS 23.501 [2], the bridge delay information at the NEF and the UE-DS-TT Residence time.

The PCF receives a request from the NEF that may include:

- Flow Descriptions including Packet Filters;

- TSN QoS Parameters for the service data flow:

- TSC Assistance Container: describes the TSC stream traffic characteristics (burst arrival time, periodicity, (both in reference to 5GS GM), and Flow direction needed for TSCAI determination (as described in clauses 5.27 and 5.28 of TS 23.501 [2]);

- TSN QoS information, i.e. priority, maximum TSC Burst Size, delay and Maximum Flow Bitrate.

- Port Management Information Container and related Port number;

- Bridge Management Information Container.

The PCF performs Session binding using the DS-TT/UE address (i.e. MAC address of DS-TT for Ethernet PDU session, or IP address for IP PDU session). How the PCF determines the Qos parameters and generates the PCC rule, is same with 6.1.3.23.

*END OF CHANGES*