**3GPP TSG-SA5 Meeting #143-e *S5-223701***

**e-meeting, 9th – 17th May 2022** Revision of S5-223283

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.255** | **CR** | **0400** | **rev** | **1** | **Current version:** | **17.5.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](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:*** | Additional of the Start Time | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17 | | | | |  | ***Date:*** | | | 2022-05-17 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | In the used unit container, the “Trigger Timestamp” is the timestamp of the trigger for charging information reporting or closing for the used unit container. In other word, the Triggers timestamp can indicate the time of the used unit closure.  However, the time of the new container is not present. | | | | | | | | |
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| ***Summary of change:*** | | Add the container start and close timestamp in the PDU container information | | | | | | | | |
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| ***Consequences if not approved:*** | | The duration of the used unit container is unclear. | | | | | | | | |
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| ***Clauses affected:*** | | 6.2.1.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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** |

#### 6.2.1.3 Definition of PDU Container information

Used Unit Container, described in table 6.1.1.2.1, specific charging information used for 5G data connectivity charging is provided within the PDU Container Information described in table 6.2.1.3.1.

Table 6.2.1.3.1: Structure of PDU Container Information

| Information Element | Category | Description |
| --- | --- | --- |
| Time of First Usage | OC | This field holds the Timestamp when the first transmitted IP packet of the service data flow matching the current used unit container |
| Time of Last Usage | OC | This field holds the Timestamp when the last transmitted IP packet of the service data flow matching the current used unit container |
| Time of start new count | OC | This field holds the Timestamp for open of the new count to record the charging information. |
| Time of close the count | OC | This field holds the Timestamp for close of the count to record the charging information. |
| QoS Information | OC | This field holds the QoS applied during the service data container interval |
| QoS Characteristics | OC | This field holds the QoS characteristics applied for QoS information. It is only be used when the non-standardized 5QI is present in QoS information. |
| AF Charging Identifier | OC | An identifier, provided from the AF, may be used to correlate the measurement for the Charging key/Service identifier values in this PCC rule with application level reports. |
| AF Charging Id String | OC | A string that, may be provided from the AF instead of AF Charging Identifier, depending on support. |
| User Location Information | OC | This field holds the user location during the used unit container interval |
| UE Time Zone | OC | This field holds the Time Zone of where the UE is located, during the used unit container interval. |
| Presence Reporting Area Information | OC | This field holds the Presence Reporting Area Information of UE during the used unit container interval. |
| Serving Network Function ID | OC | Serving Network Function identifier. |
| RAT Type | OC | This field holds the RAT type during the used unit container interval.  For MA PDU session, this field holds the RAT type associated to the access which activated the rating group. |
| Sponsor Identity | OC | This field holds the identifier of the sponsor when sponsored data connectivity is used |
| Application Service Provider Identity | OC | This field holds the identifier of the application service provider that is delivering a service to the end user. |
| Charging Rule Base Name | OC | This field holds the reference to group of PCC rules predefined at the SMF |
| 3GPP PS Data Off Status | OC | This field holds the 3GPP Data off Status during the used unit container interval |
| MA PDU Steering functionality | OC | This field holds the Steering functionality used during the used unit container interval when MA PDU session |
| MA PDU Steering mode | OC | This field holds the Steering mode used during the used unit container interval when MA PDU session. |
| Traffic Forwarding Way | OC | This field holds the traffic forwarding way for the 5G VN group communication if present.  If the SMF can distinguish the traffic forwarding way, the SMF reports the volume per traffic forwarding way. If the SMF cannot distinguish, the SMF reports the traffic and the corresponding traffic forwarding way (may be multiple). |
| QoS Monitoring Report | OC | This field holds the QoS monitoring result (i.e., average packet delay per QoS flow per UE) for the service data flow. |

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| **End of change** |