**3GPP TSG-SA5 Meeting #130-e *S5-202173rev1***

**Online, , 20th Apr 2020 - 28th Apr 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **32.255** | **CR** | **0213** | **rev** | **1** | **Current version:** | **16.4.0** |  |
|  |
| *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:***  | Add PDU Address in for IPv6 multi-homing  |
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| ***Source to WG:*** | Huawei  |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | TEI 16 |  | ***Date:*** | 2020-04-22 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | 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:*** | The PDU Addresses per PSA for IPv6 multi-homing is not specified in TS 32.255. |
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| ***Summary of change:*** | This contribution is to add PDU Addresses per PSA in PDU container information for IPv6 multi-homing, including in the charging data request/response and CDR. |
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| ***Consequences if not approved:*** | In IPv6 multi-homing scenario, only one PDU address is reported to CHF, and other PDU addresses are droped by SMF. |
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| ***Clauses affected:*** | 6.2.1.3 |
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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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| **First change to TS 32.255** |

#### 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  |
| 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. |
| 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  |
| 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 |
| Used multi-homing Address | Oc | This field holds the IPv6 prefix used by PSA to transfer service data flow for the IPv6 multi-homed PDU session. The used unit container are associated with the IPv6 prefix. |

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| **End of Change** |