**3GPP TSG-SA5 Meeting #141-e *S5-221105***

**e-meeting, 17th – 26th January 2022** Revision of S5-20xxxx

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **32.255** | **CR** | **0357** | **rev** | **1** | **Current version:** | **17.4.0** |  |
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| *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:***  | Correction on the UPF Id used for QBC |
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| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | TEI17,5GS\_Ph1-DCH |  | ***Date:*** | 2022-01-24 |
|  |  |  |  |  |
| ***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 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | The insertion of an ULCL in the data path and the pre-configure PCC rule of a QoS flow, the multiple UPF may be existd. The current charging mechanism of QBC can not support the reporting of the multiple UPF case. |
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| ***Summary of change:*** | Add the UPF id in the Multiple QFI container |
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| ***Consequences if not approved:*** | The multiple UPF for QBC can not be supported. |
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| ***Clauses affected:*** | 6.2.1.4 |
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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** |

#### 6.2.1.4 Definition of roaming QBC information

Roaming QBC specific charging information used for 5G data connectivity charging is provided within the Roaming QBC Information.

The detailed structure of the Roaming QBC Information can be found in table 6.2.1.4.1.

Table 6.2.1.4.1: Structure of Roaming QBC Information

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| Information Element | Category | Description |
| Multiple QFI container | OC | This field holds a list of QFI containers. It may have multiple occurrences |
| Triggers | OC | This field holds the reason for closing the QFI unit container. |
| Trigger Timestamp | OC | This field holds the timestamp of the trigger. |
| Time | OC | This field holds the amount of used time. |
| Total Volume | OC | This field holds the amount of used volume in both uplink and downlink directions. |
| Uplink Volume | OC | This field holds the amount of used volume in uplink direction. |
| Downlink Volume | OC | This field holds the amount of used volume in downlink direction. |
| UPF ID | OC | This field holds the UPF identifier used to identify the UPF, only used in case of multiple UPFs scenario. |
| Local Sequence Number | M | This field holds a QFI data container sequence number |
| QFI Container information | OC | This field holds the QFI data container information defined in clause 6.2.1.5 |
| UPF ID | OC | This field holds the UPF identifier used to identify the UPF when reporting the usage for the UPF, only used in case of single UPF scenario. |
| Roaming Charging Profile | OC | This field holds the Roaming Charging Profile associated to the PDU session for roaming QBC. |
| Trigger  | OC | This field holds the trigger applicable to QBC.This field has multiple occurrences |
| Trigger type | OC | This field holds the chargeable event defined in table 5.2.1.6.1. |
| Trigger category | OC | This field holds the trigger category (i.e. immediate or deferred reporting) |
| Time Limit | OC | This field holds the limit value in seconds when the trigger type is "Expiry of data time limit" |
| Volume Limit | OC | This field holds the limit value in octets when the trigger type is "Expiry of data volume limit" |
| Max Number of charging condition changes | OC | This field holds the limit value when the trigger type is "Expiry of limit of number of charging condition changes" |
| Partial record method | OC | This field holds the method uses by the CHF for partial record closure: default or Individual.  |

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| **End of change** |